CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. , New York, May 21, 1908.

CONTENTS.

CONSTRUCTION NEWS:	
Plans and Specifications on File	171
List of Contracts Pending	171
Railways	171
Electric Railways	172
Light and Power Plants	172
Bridges	173
Buildings	173
Water Supply and Irrigation	175
Sewerage	175
Garbage Disposal	176
Streets and Roads	176
Manufacturing Plants	177
Miscellaneous Contracts	178
U. S. Possessions and Cuba	178
Foreign Contracts and Export News	178
Contract Prices	179
CIVIL SERVICE EXAMINATIONS	179
INDUSTRIAL NOTES	179
READERS' WANTS	179
TRADE PUBLICATIONS	179
PROPOSALS	180

CONSTRUCTION NEWS.

For the convenience of readers, the items in each department of the Construction News Supplement are arranged in a geographical order as follows:

NEW ENGLAND: Me., N. H., Vt., Mass., R. I., Conn. MIDDLE: N. Y., N. J., Pa., Del., Md., D. C. SOUTH ATLANTIC: Va., W. Va., N. C., S. C., Ga., Fla. SOUTH CENTRAL: Ala., Miss., La., Tenn., Ky. NORTH CENTRAL: Ohio, Ind., Mich., Ill., Wis. NORTHWESTERN: Iowa, Minn., Kan., Neb., S. Dak., N. Dak., Wyo., Mont. SOUTHWESTERN: Mo., Ark., Tex., Okla., Colo., N. Mex. PACIFIC: Wash., Ore., Cal., Ariz., Nev., Utah, Idaho. CANADA: N. B., N. S., P. E. I., Que., Ont., Man., Sask., Alta., N. W. T., B. C., NEWFOUNDLAND, MEXICO.

The advantage of the geographical arrangement over the alphabetical is that all the items relating to work in one locality are kept together. In the Department of Railways only, where a company may be referred to by its name, is the alphabetical arrangement of items used.

PLANS AND SPECIFICATIONS ON FILE.

(* *denotes that this work is advertised in Engineering News.*)

The following Plans (P.) and Specifications (S.) are on file and may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work. Place.		See issue.
5-23*	Jetty, Key West, Fla.	(S.)	4-23
5-26*	Bridge, Oswego, N. Y.	(S)	5-21
5-27*	Dredging, docks, Chicago, Ill.	(S)	5- 7
5-27	Drains, Baltimore, Md.	(P. & S.)	5-21
5-29	Gun shed, Bremerton, Wash.	(S.)	5- 7
6- 1	Bulkhead, Ft. Mansfield, R. I.	(S)	5-14
6- 1	Road, etc., Ft. H. G. Wright, N. Y.	(S.)	5-14
6- 1*	Grading, etc., Fort Andrews, Mass.	(P. & S.)	5-14
6- 1	Wharf repairs, Newport, R. I.	(P. & S.)	5- 7
6- 6*	Reservoir, etc., Neosho, Mo.	(P. & S.)	5-14
6- 6	Air compressor, Bremerton, Wash.	(S.)	5-14
6-13	Dredging, diking, etc., Key West, Fla.	(S.)	5-21
6-23*	Bridge, Wakeman, Ohio.	(P. & S.)	5-21
7-13*	Lock, dam, Vicksburg, Miss.	(S.)	5-14

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

5-23	Power plant, Seattle, Wash.	5-14
5-25	Lighting plant, Carrollton, Ky.	5-14
5-25	Power plant, Calgary, Alta.	5-21
5-26	Elec. supplies, Washington, D. C.	5-21
5-27	Elec. supplies, Leavenworth, Kan.	5-14
5-27*	Cables, Washington, D. C.	5-14
5-30	Power plant plans, Oxford, Miss.	5- 7
6- 1	Lighting system, Carthage, Ohio.	5-14
6- 1	Boilers, Sandusky, Ohio	5-14
6- 1	Power-house, Reno, Nev.	5-21
6- 2*	Trans. lines, Toronto, Ont.	5-21
6- 4	Conduits, etc., New York, N. Y.	5-14
6- 5*	Lighting fixtures, Wilkes-Barre, Pa.	5- 7
6- 6	Air compressor, Bremerton, Wash.	5-21
6- 8	Wiring, Prairie View, Tex	5-21
6-10*	Conduit, etc., Ogden, Utah	5- 7
6-17	Lighting, Natchez, Miss	5-14
6-19	Elec. apparatus, Minidoka, Idaho.	5-21
6-20	Power-house, etc., New Orleans, La.	4-30

BRIDGES.

5-22	Bridge, Mountain Lake, Minn.	5-21
5-25	Bridge, Beaver, Pa.	5-21
5-25	Bridge repair, Youngstown, Ohio.	5-21
5-25	Bridge, Minneapolis, Minn.	5-14
5-26	Retaining wall, Waterville, Ohio.	5- 7
5-26*	Bridge, Oswego, N. Y.	5-14
5-27*	Substructures, etc., Evanston, Ill.	5-14
5-27*	Bridge, Columbus, Ga	4-23
5-27*	Bridge, Chicago, Ill.	5- 7
5-28	Bridge, Sycamore, Pa.	5-21
5-29*	Bridges, Croton Falls, N. Y.	5- 7
6- 1	Bridge repair, Greenfield, Ind.	5-14
6- 1	Bridge, Minneapolis, Minn.	5-21
6- 1	Culvert, Chillicothe, Ohio	5-21
6- 1	Pile bridge, Rensselaer, Ind.	5-21
6- 2	Bridge, Vincennes, Ind.	5-21
6- 2	Bridge, Bedford, Pa.	5-21
6- 3*	Bridges, Philadelphia, Pa.	5-21
6- 3	Superstructures, etc., Columbus, Ohio	5-14
6- 4	Bridges, Goshen, Ind.	5-14
6- 4*	Bridge, Wakeman, Ohio	5-14
6- 4	Bridge work, Gallipolis, Ohio.	5-21
6- 5*	Bridge, Russell, Mass.	5-21
6-10*	Viaduct, Buffalo, N. Y.	5-21
6-10	Bridges, etc., Cleveland, Ohio.	5-21

BUILDINGS.

5-22*	Elevators, Wilkes-Barre, Pa.	5- 7
5-22	Quarters, Ft. Leavenworth, Kan.	5-14
5-22	School, Muskegon, Mich.	5-21
5-23	Station, Camden, N. J.	5-21
5-25	Y. M. C. A. bldg., Camden, N. J.	5-21
5-25	Buildings, Buffalo, N. Y.	5-14
5-25	School, Bristol, Conn.	5-14
5-25	School, McKees Rocks, Pa.	5-14
5-25	Glass roof, Washington, D. C.	5-14
5-25	School, Cleveland, Ohio	5- 7
5-25	Quarters, Ft. Meade, S. Dak.	5- 7
5-25*	Post-office, Chester, S. C.	4-16
5-25	Schools, New York, N. Y.	5-14
5-26	Bank, Cincinnati, Ohio	5-21
5-26	Creamery, etc., Industry, N. Y., (Mfg. Pl.)	5-21
5-27	Plaster work, Washington, D. C.	5-21
5-27	Court-house, New York, N. Y.	5-14
5-27*	Metal shelving, Superior, Wis.	5- 7
5-28	Hospital, New York, N. Y.	5-21
5-28	Engine houses, New York	5-21
5-29	Laundries, Washington, D. C., (Mfg. Pl.)	5-21
5-29*	Bakery, Ft. Andrews, Mass. (Mfg. Pl.)	5- 7
5-29	Gun shed, Bremerton, Wash.	5- 7
5-29*	Gymnasium, Ft. Hancock, N. J.	5- 7
5-31	Plans, Agricultural College, Miss.	4-23
6- 1	Post-office, Grand Island, Neb.	4-30
6- 1*	Jail, Rolling Fork, Miss.	5-14
6- 1	Bakery, Ft. Terry, N. Y. (Mfg. Pl.)	5-14
6- 1	Library, Springfield, Mass.	5-14
6- 1	Court-house, New York, N Y.	5-21
6- 1	Hospital, New York, N Y.	5-21
6- 1	Schools, New York, N. Y.	5-21
6- 2	Post-office, New Ulm, Minn.	4-30
6- 2*	Educational bldg., Albany, N. Y.	4-23
6- 2	Plans, Richmond, Va.	4-16
6- 3	Post-office, Detroit, Mich.	5- 7
6- 4*	Quarters, West Point, N. Y.	5-14
6- 6	Buildings, Fort Niagara, N. Y.	5-21
6- 8	Hospital, Calgary, Alta.	
6- 8	Post-office, Dover, N. H.	4-30
6- 9*	Engine, Ft. Wood, N. Y.	5-14
6- 9	Workhouse, Hopewell, N. J.	5-21
6-10*	Interior work, Jersey City, N. J.	5-21
6-10	Plans, Yreka, Cal.	5-21
6-10	School, New Castle, Pa.	5-21
6-10	Buildings, Ft. Slocum, N. Y.	5-21
6-11	Buildings, Ft. Sam Houston, Tex.	5-21
6-11*	Elevators, Seattle, Wash.	5-14
6-12	Post-office, St. Charles, Mo.	5- 7
6-13	Court-house, Edmonton, Alta.	5-21
6-16*	Plumbing, etc., Ft. Worth, Tex.	5-21
6-17	Post-office, Newton, Kan.	5-14
6-18*	Post-office, Houston, Tex.	5-21
6-22*	Post-office, Provo, Utah	5-14
6-24	Post-office, Fayetteville, Ark.	5-21
6-25	Post-office, Greenville, Tex.	5-21
6-29*	Post-office, Sumter, S. C.	5-21
6-30*	Post-office, Meadville, Pa.	5-21
8- 1	Plans, St. Paul, Minn.	4-30

WATER-WORKS.

5-22	Water-works, Roswell, N. Mex.	5- 7
5-22	Water-pipe, Waukegan, Ill.	5-21
5-25	Water plant, Carrollton, Ky.	5-14
5-26*	Pumping engines, Ely, Nev.	5-14
5-26	Gate valves, Victoria, B. C.	5-21
5-28*	Pumping station, Alta Loma, Tex.	5- 7
5-29*	Reservoir, Owego, N. Y.	5-14
6- 1*	Pipe, Yonkers, N. Y.	5-14
6- 1	Water mains, Grand Forks, N. Dak.	5-14
6- 1	Pumping station, Fort Mason, Cal.	5-14
6- 1*	Tanks, Ft. Monroe, Va.	5- 7
6- 1	Water-works, Shelby, N. C.	5- 7
6- 1*	Conduit line, Syracuse, N. Y.	5-21
6- 2	Excavation, Marysvale, Utah	5-21
6- 2*	Siphon, New York, N. Y.	5- 7
6- 2	C.-I. pipe, Cincinnati, Ohio	5-14
6- 6*	Reservoir, Neosho, Mo.	5- 7
6- 6	Water-pipe, Washington, D. C.	5-21
6- 6	Reservoir, Carson City, Nev.	5-21
7- 8	Dam, Ottawa, Ont.	5-21
6- 9*	Pipe, Kimberly, Nev.	5-14
6-15	Water system, Fort St. Philip, La.	5-21
6-15*	W-wks machinery, Edmond, Okla.	5-21
6-30*	Pumps, etc., New Orleans, La.	4-22
7-15*	Channel, Sunnyside, Wash.	5- 7

SEWERS.

5-22	Sewer, Summithill, Pa.	5-21
5-23*	Sewer, Ardmore, Pa.	5- 7
5-25	Sewers, East Rutherford, N. J.	5-14
5-25	Sewer, New York, N. Y.	5-21
5-26*	Sewer, Peekskill, N. Y.	5-14
5-26	Sewer, New York, N. Y.	5-14
5-26*	Sewers, Gulfport, Miss.	4-23
5-27	Drains, Baltimore, Md.	5-14
5-27*	Sewer, Louisville, Ky.	5-14
5-28*	Sewer, Chillicothe, Ohio	4- 7
5-28	Sewer, Johnson City, Tenn.	5-21
5-28	Sewer, North Braddock, Pa.	5-21
5-28	Sewers, New York, N. Y.	5-21
6- 1	Sewer, Elizabeth, N. J.	5-21
6- 1	Sewer, New York, N. Y.	5-21
6- 1	Sewers, Saginaw, Mich.	4-30
6- 1	Sewer system, Shelby, N. C.	5- 7
6- 3	Sewers, New York, N. Y.	5-14
6- 3*	Sewers, Philadelphia, Pa.	5-21
6- 4	Septic tank, Atchison, Kan.	5-21
6- 6	Sewers, Sullivan, Ind.	5-21
6-10*	Sewer, Baltimore, Md.	5-21
6-30	Sewerage machinery, New Orleans, La.	5-14

STREETS AND ROADS.

5-21	Street impvt., Cincinnati, Ohio	5-21
5-21	Limestone, etc., Reading, Pa.	5-21
5-22	Paving, etc., Evansburg, Pa.	5-21
5-22*	Pavement, Knoxville, Tenn.	5-14
5-22	Macadam, Waukeska, Wis.	5-14
5-23	Roads, Terre Haute, Ind.	5-14
5-23	Grading, etc., Baltimore, Md.	5-21
5-25	Curb, Albert Lea, Minn.	5-21
5-25	Curbing, Shamokin, Pa.	5-21
5-25*	Paving, Smethport, Pa.	5-14
5-25	Pavement, Clarksville, Va.	5-21
5-26	Macadam road, Fort Scott, Kan.	5-21
5-26	Roads, Harrisburg, Pa.	5-14
5-26*	Pavements, etc., Gulfport, Miss.	4-23
5-26*	Macadam, Elizabeth, N. J.	5- 7
5-27	Asphalt plant, San Francisco, Cal.	5-14
5-27	Roads, Harrisburg, Pa.	5-14
5-27	Paving, Conneaut, Ohio	5-21
5-28	Paving, New York, N. Y.	5-21
5-28	Road, Detroit, Mich.	5-21
5-28	Road, Harrisburg, Pa.	5-14
5-29	Paving, Westerville, Ohio	5-14
5-29	Grading, etc., Paulding, Ohio	5-21
5-30	Macadam road, Greencastle, Ind.	5-14
6- 1	Road, etc., Fort H. G. Wright, N. Y.	5-14
6- 1	Road, Jasper, Ind.	5-14
6- 1	Road, Tipton, Ind.	5-14
6- 1	Road, Franklin, Ind.	5-14
6- 1	Roads, Decatur, Ind.	5-14
6- 1	Plank roads, Fort Pickens, Fla.	5-14
6- 1	Road crossings, Columbus Barracks, Ohio	5-14
6- 1	Roads, Harrisburg, Pa.	5-14
6- 1	Paving, New Brunswick, N. J.	5-14
6- 1	Road, Fort Lyon, Me.	5-14
6- 1*	Grading, etc., Ft. Andrews, Mass.	5- 7
6- 1	Roads, Fort Slocum, N. Y.	4-23
6- 1	Macadam, Hackensack, N. J.	5-21
6- 1	Road, Fort Benjamin Harrison, Ind.	5-21
6- 1	Sidewalk, Yankton, S. Dak.	5-21
6- 1	Road, New Castle, Ind.	5-21
6- 1	Road, Hartford City, Ind.	5-21
6- 1	Road, Kokomo, Ind.	5-21
6- 1*	Paving, Vicksburg, Miss.	5-21
6- 2	Stone, Irvington, N. J.	5-21
6- 3	Road, Muncie, Ind.	5-21
6- 3	Paving, etc., New York, N. Y.	5-21
6- 6	Road, Crawfordsville, Ind.	5-21
6- 6	Walks, Fort Niagara, N. Y.	5-21
6- 8*	Paving, Newark, N. J.	5- 7
6- 8*	Gravel road, Cape May, N. J.	5-14
6- 8	Macadam, Mt. Kisco, N. Y.	5-21
6- 9	Roads, Portland, Ind.	5-21
6-11	Macadam, Janesville, Wis.	5-21
6-15*	Concrete walks, Fort Barrancas, Fla.	5-14
7- 1*	Roads, Fort Barrancas, Fla.	5-21

MISCELLANEOUS.

5-21	Ditch, Northwood, Iowa	5-21
5-23	Ditch, Frankfort, Ind.	5-14
5-23*	Jetty, Key West, Fla.	4-23
5-23	Steel steamer, Wash., D. C.	5- 7
5-24	Chimney, Eldora, Iowa	5-14
5-25	Riprap, New York	5-14
5-25*	Garbage, Syracuse, N. Y.	5-21
5-25	Telephone system, Winnipeg, Man.	5-21
5-26	Dredging, Ottawa, Ont.	5-21
5-26	Garbage, New York, N. Y.	5-14
5-27	Derricks, Engines, New York	5-21
5-27*	Dredging, docks, Chicago	5- 7
5-28	Piling, Panama	5-21
5-28	Ditch, Crookston, Minn.	5-14
5-29	Dredging, Wilmington, Del.	5-21
5-29	Repairing ferryboats, N. Y.	5-21
5-30	Ditch, Frankfort, Ind.	5-21
6- 1	Duck bags, Columbus, Ohio	5-21
6- 1	Light, tower, Ft. Michie, N. Y.	5-14
6- 1	Bulkhead, Ft. Mansfield, R. I.	5-14
6- 1	Fog-signal bldg., Portland, Ore.	5-14
6- 1*	Dredging, Charleston, S. C.	5- 7
6- 1*	Lock-gate house, Boston, Mass.	5- 7
6- 1	Wharf repairs, Newport, R. I.	5- 7
6- 1	Wharf, Portland, Me.	5- 7
6- 1	Drain, Osnabruck Centre, Ont.	4-23
6- 1*	Wharf, Boston, Mass.	4-30
6- 1	Repairing steam vessel, N. Y.	5-21
6- 1	Stone, screenings, New York	5-21
6- 1	Fire alarm, New York	5-21
6- 2	Ditch, St. Paul, Minn	5-21
6- 2	Box cars, Panama	5-21
6- 2*	Cars, Brooklyn, N. Y.	5-21
6- 3	Target range, Seattle, Wash.	5-21
6- 4*	Light-house, New London, Conn.	5- 7
6- 6	Air compressor, Bremerton, Wash.	5-14
6- 6	Rock, New Orleans, La.	5-21
6- 8	Iron posts, Ottawa, Ont.	5-21
6- 9	Treated lumber, New Orleans, La.	5- 7
6-10	Launches, steamers, Wash., D. C.	5-21
6-10	Levee, Memphis, Tenn.	5-21
6-13	Dredging, diking, etc., Key West, Fla.	5-21
7-13*	Lock, dam, Vicksburg, Miss.	5-14
8-14	Light-house, Alaska	5-21
9- 1	Monument designs, Mexico	5-21

CIVIL SERVICE.

5-26	Dockmaster, New York	5-14
6- 1	Supt., 'Phone Constr., Wash., D.C	5-14
6- 1	Plant Ecologist, Wash., D. C.	5-14
6- 3	Testing Engr., Washington, D. C.	5-21
6- 3	Laboratory Asst., Wash., D. C.	5-21
6- 3	Lamp Inspector, Wash., D. C.	5-21
6- 3	Laboratory Inspect., Wash., D. C.	5-21
6- 3	Chemist, Wash., D. C	5-21
6- 6	Axeman, Albany, N. Y.	5-21
6- 6	Chief Engr., Albany, N. Y.	5-21
6- 6	Examiner, Albany, N. Y.	5-21
6- 6	Inspector Weights, Measures, Albany, N. Y.	5-21
6-17	Elevator Electrician, Tampa, Fla.	4-19
6-24	Lab. Asst., Wash., D. C.	4-19

RAILWAYS.

ALEXANDER & EASTERN.—This company has been chartered to build a railroad from Alexander, in Upshur County, to Elkins, W. Va., 25 or 30 miles. Principal office at 806 West Pike St., Clarksburg, W. Va. Authorized capital, $100,000. This road now extends from Alexander, W. Va., to Long Run Junction with a ¾-mile branch up Long Run and a ½-mile branch up Left Fork of Buckhannon River. Total mileage, 18 miles. Operated for freight traffic only. O. A. Annan is Gen. Mgr., Alexander.

CALIFORNIA.—James Cain, of Bodie, Cal., who was reported to be interested in plan to build a railroad this summer from Bodie, Mono County, to a point near Mina, Nev., advises us that no definite conclusions have been reached yet regarding the project.

COLORADO.—J. Carmon Layton, of Ouray, Colo., through a cooperative company, will build a railroad in the Paradox and Naturita country, west of Montrose, which will cost $1,000,000, and will bring that section of the state into communication with the western slope, it is reported. The road will be built from the Naturita and Paradox region to Montrose, Olathe or Delta, a definite point not having been determined. It is expected that it can be built for $12,500 a mile. The final survey is to begin soon.

COTTON BELT.—A charter has been applied for in Georgia to build a railroad from Louisville, Ga., via Vidette and Waynesboro, to a point near Shell Bluff Landing on the Savannah River in Burke County, 50 miles. Capital stock, $250,000. The incorporators are F. R. Durden, of Savannah, and E. T. Coleman, L. Butts, W. M. Durden, C. A. Graybill, D. B. Durden, Lester Roberts, W. W. Larson and F. R. Brinson, all of Swainsboro, Ga.

DELAWARE, LACKAWANNA & WESTERN.—This company has completed plans for the construction of a new cut-off between Lake Hopatcong and the Delaware Water Gap which will reduce the distance between Jersey City and Buffalo by ten miles, and give the Lackawanna a low grade line through the New Jersey hills, according to the New York "Times." The cost of the new line will reach $10,000,000, making it the most expensive piece of railroad building, other than terminal work, ever undertaken in this country. The new cut-off, which will run from Hopatcong, N. J., to Portland, on the Delaware River, will be 28½ miles long, and as it will cost $10,000,000 the expenditure will amount to about $350,000 a mile. Lincoln Bush is Ch. Engr., Hoboken, N. J.

EAST RIVER TERMINAL R. R.—The Public Service Commission has received an application from the East River Terminal Railroad, through W. B. Duncan, Jr., Pres., for a certificate of public convenience and necessity to construct and maintain a street surface railroad in the Borough of Brooklyn, N. Y. The East River Terminal R. R. Co. was incorporated Oct. 7, 1907. The purpose of the company is to build and maintain a railroad to be operated by steam power, a dummy or locomotive engine of the switching variety to be used for the purpose of doing a freight business exclusively, receiving and distributing freight to and from shippers in Brooklyn. The road is to run from a point on the East River, between North Third and North Fourth Sts., easterly about half a mile to a point east of Wythe Ave., between North Third and North Fourth Sts. Capital stock is $10,000.

FLORIDA & GEORGIA.—Mason Bros., of Bridgeport, Ala., write us that the report that they have been awarded a contract to construct ten miles of railroad for the Florida & Georgia Ry., and 30 miles of trestle for the same line between Douglas and Valdosta, Ga., is incorrect. A. & C. WRIGHT, of Atlanta, Ga., have this contract.

GIDEON & NORTH ISLAND.—Charter has been granted to this company in Missouri. Capital, $120,000. Incorporators are W. P. Anderson, M. S. Anderson, M. V. Mumma of Gideon; N. V. Turner and L. I. Yeagley of Malden. The company purposes to construct and operate a standard-gage railroad from Malden, Dunklin County, Mo., through New Madrid County to a point in Pemiscot County. The length of the road will be twelve miles.

GOOSE LAKE & SOUTHERN.—This company has been incorporated in California to build from Goose Lake on the Oregon-California State line to Anderson, Shasta County, Cal. The northern terminus will be at a connection with the Oregon Eastern Railway and the line will pass through Modoc, Lassen and Shasta Counties to a connection with the Southern Pacific at Anderson, a distance of 227 miles. The branch line will extend through Modoc, Lassen, Plumas and Tehama Counties to Vina, a distance of 79 miles. The capital stock is $13,398,000. The incorporators are officials of the Southern Pacific Railroad and include E. E. Calvin, William F. Herrin, W. H. Scott and J. L. Willcutt.

HARRISVILLE & CORNWALLIS.—J. B. Westfall, Secy., Harrisville, W. Va., advises us that this company is building its railroad, connecting Harrisville and Cornwallis, six miles, by force account. Surveys are made. Right-of-way is obtained. Capital is negotiated. W. S. Stout is Pres. and A. Wolverton is Ch. Engr., both at Harrisville. Incorporation was noted on March 12.

LAFAYETTE, EUNICE & ABBEVILLE.—Meeting of the Board of Directors was held at Lafayette, La., on May 7. Company is reported to have made survey, established grades and prepared estimates for its proposed line, which is to be about 60 miles long. George A. Clark is Mgr. J. I. Lewis is Pres.; Charles D. Caffery, Secy.; L. F. Lonnbladh, Ch. Engr.; P. L. Declouet, E. G. Voorhies, James I. Ewell, A. J. Goddard, Dr. J. A. Villien and Julien Mouton are directors.

MEXICO.—Gen. Julio M. Cervantes, Mexico City, has obtained a concession from the Federal Government to construct and exploit for 99 years a railroad in the Huasteca Potosina. This will start from the station of San Mateo on the San Luis Potosi division of the Mexican Central, passing Aquimon Mequi to Tiletla with a branch to Tamazundrale. The preliminaries of a contract between the concessionary and Leon Vargas

Navarro and Lic. Vicente B. Treviño have been signed. These cover the general basis for a company which will purchase the concession and construct the railroad. This will be of great importance, not only for the Huasteca Potosina, but for the entire country, as it will allow the establishment of new industries and the working of the heavy deposits of oro negro and oil which are to be found in the vicinity of the projected road. The line will be 150 kilometers in length.

NORTHERN RAILWAY OF MAINE.—Edson E. Goodrich, Pres., 27 Elm St., Waterville, Me., advises us that date for letting contracts has been decided upon. The line has not yet been surveyed. The road will be built to handle lumber and farm products principally. Maximum curves will be 6° and the maximum grades 1½%; 80-pound rails will be used. Right-of-way has not been obtained. H. F. Hull, Augusta, Me., is Ch. Engr. The road will extend from Van Buren to St. Francis, Me., 62 miles.

OKLAHOMA.—The Chamber of Commerce of Shawnee, Okla., has adopted a resolution pledging the city to raise a bonus of $75,000 for any company that will build a railway from Shawnee to Muskogee, Okla, it is announced. The cities of Okemah and Okmulgee have also pledged $25,000 each.

SABINE VALLEY RY.—Surveys are being made for the proposed line from Marshall, Tex., to Port Arthur. John Auchincloss, of West Orange, N. J., is Pres.; L. E. Walker, of Marshall, First Vice-Pres. and Gen. Mgr.; E. P. Taylor, Jr., 27 Pine St., New York City, Second Vice-Pres.; H. L. Jackson, Consult. Engr.; R. Y. Walker, Engr.-in-Charge; headquarters at Marshall, Tex.

SACRAMENTO & YOLO BELT LINE.—We are officially informed that construction contracts will not be let until company secures right-of-way over disputed territory. A. Curtis, C. R. Root, H. A. Read, D. A. Lindley and Charles Wesley, of Sacramento, Cal., incorporated this company, as noted on March 19, to construct and operate a line of standard-gage railway two miles in length. It is to begin at the intersection of Second St., in Washington, opposite Sacramento, and the Sacramento River levee. The capital stock is $50,000, of which $5,000 has been subscribed.

SAN DIEGO SOUTHERN.—William Clayton, director, advises us that this company has not yet completed organization plans. As noted on Feb. 13, this company was incorporated in California for the purpose of building a railway from San Diego, Cal., to Ensenada, Mexico, with branch lines from San Diego to Coronado to La Presa, through the Jamulca and Jamacha valleys and to Lakeside. The estimated total length of the lines proposed is 150 miles. Capital stock is $5,000,000. The directors are: John D. Spreckels, Pres.; A. B. Spreckels and John D. Spreckels, Jr., all of San Francisco, and William Clayton and Harry L. Titus, of San Diego, Cal. The articles of incorporation state that it is to be a standard-gage commercial road and that steam, electricity or other motive power may be used.

TOLEDO, ST. LOUIS & NEW ORLEANS.—Directors have elected the following officers: Nathaniel M. Burns, Pres., St. Louis, Mo.; D. Reid, Vice-Pres., Marion, Ill.; Henry S. Ames, Treas., St. Louis, Mo.; and Thomas W. Hall, Secy., Carmi, Ill. The company proposes to build a railway from Effingham south to Brookport, Ill., opposite Paducah, Ky., 140 miles, with several branches.

VERSAILLES & SEDALIA.—This company probably will build an extension from Ouachita to Sedalia, Mo., 24 miles, this year. R. E. Bradford is Pres., 606 Century Bldg., St. Louis, Mo. Company recently completed its railway, which runs from Versailles to Ouachita, Mo., six miles.

VIRGINIA AIR LINE.—This railway is now under construction. When completed it will run from Lindsay to Thelma, Zion, Clarkland, Wildwood, Palmyra, Fork Union and Bremo, 30 miles. T. O. Troy is Pres., Amherst, Va.; Walter Washbaugh is Ch. Engr., Charlottesville, Va.; Fuller Potter is Treas., 5 Nassau St., New York. Noted on Dec. 19.

WINDSOR, CHATHAM & LONDON.—Application has been made for an extension of time for the construction of this railway. M. Wilson, Chatham, Ont., is Atty.

ELECTRIC RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

*NEW YORK, N. Y.—James W. Stevenson, Comr. Bridges, will sell at public auction, to the highest bidder, on June 2, at 10.30 a. m., at the railroad yard, foot of 39th St., Brooklyn, passenger coaches, truck cars, etc. For details see "Cars—Brooklyn, N. Y.," under Miscellaneous Contracts.

FREEPORT, L. I., N. Y.—We are officially advised by Elvin N. Edwards, Atty., 215 Montague St., Brooklyn, that the Long Island R. R. Co.'s engineers are making preliminary survey for the proposed electric railway loop to connect Hempstead, Freeport, Uniondale and Roosevelt. The line will be a continuation of the Long Island Railroad, the motive power will be electricity and steam, and the line is to run a distance of five miles, connecting the main branch of the Long Island Railroad with the Montauk Division. The proposed road runs north from Freeport, east of the New York & Long Island Traction Co. line, through the villages of Roosevelt, Uniondale and Hempstead. This new line will give railroad facilities to two very fast growing villages which have none at present: Roosevelt and Uniondale. It will enable the Long Island Railroad to do away with the terminal at Hempstead, and permit through trains from and to New York. It will open up the middle part of the Island with direct communication of Long Beach, the new Atlantic City. Two-thirds of the right-of-way of this railway has been offered to the Long Island R. R. Co. if it will begin construction in the near future. Preliminary surveys have been partly made. Ralph Peters is Pres. and Gen. Mgr.; and J. R. Savage is Ch. Engr., Long Island R. R. Co., Jamaica, N. Y.

HANOVER, PA.—We are officially advised that the Hanover & McSherrytown Elec. R. R. extension from McSherrytown to Littlestown, six miles, will be completed about July 15. J. H. DOBBLING, of York, Pa., is the contractor. There are three concrete bridges and 50,000 cu. yds. of material to be moved. Surveys are made, right-of-way secured and two miles of line completed. W. H. Lanius is Pres. and R. B. McKinnon Ch. Engr., York. It is announced that this company has increased its capital stock from $30,000 to $200,000. Company was incorporated in 1892.

HARRISBURG, PA.—A charter has been granted to the Schuylkill & Dauphin Traction Co., capital, $25,000, to build an electric railway connecting important towns in the Lykens Valley with line in Schuylkill County, at Tower City. The incorporators are: J. W. Mayer, of Pottsville, Secy.; Edgar D. Rank, Malcolm G. Stewart, Louis H. Schappell and N. D. Yoder.

FREDERICK, MD.—Contracts will be let this month by the Washington, Frederick & Gettysburg Railway Co. for the extension of its line from Lewistown, Md., to a connection with the Monocacy Valley R. R., about 3½ miles. There will be 12,000 cu. yds. of excavation; 75 M. ft. B. M. trestling; and 100 cu. yds. of fourth-class masonry. D. Columbus Kemp is Pres. and Pur. Agt.

MORGANTOWN, W. VA.—FRANK ALFIERY, of this city, has been awarded contract for extending the South Morgantown traction line for two miles. Estimated cost, $60,000. C. D. Willey is Gen. Mgr.

OPELIKA, ALA.—The Alabama Railway & Electric Co. proposes to build this year from Lafayette to Eufaula, Ala., 80 miles, and southward from there to the Gulf coast. The officers are A. M. Buchanan, Opelika, Ala., Pres.; Judson C. Chapman, Gen. Counsel and Vice-Pres., and John M. Shelly, Secy. and Treas., Atlanta. Capital $200,000. Surveys have been completed and grading has been completed from Lafayette to Opelika. A contract will be let for grading between Opelika and Eufaula soon. Grades and curves will be light. Several short bridges and trestles will be required. Company plans to have at least 15 miles in operation this year. For further information address Judson C. Chapman, Atty., 223 Century Bldg., Atlanta, Ga.

XENIA, OHIO.—We are officially advised that the Cincinnati, Wilmington & Xenia Traction Co. has secured capital for building its line from Xenia to Wilmington and Blanchester, Ohio, 35 miles. Survey has not been made yet nor has right-of-way been obtained. Noted on April 23.

INDIANAPOLIS, IND.—Harry C. Sandusky, Ch. Engr. of the Indianapolis, Cloverdale & Terre Haute Elec. Ry. Co., 413 State Life Bldg., Indianapolis, informs us that E. M. Bowman, Pres., has secured 30 miles of right-of-way and franchises at Mooresville and Cloverdale. Unlike other electric railways, this line will not parallel a steam railway, but will open up a new and thickly settled country. The line with its branches will be about 90 miles in length. Surveys have been started and will be pushed as rapidly as possible.

CHICAGO, ILL.—Judge Grosscup, Chicago, has permitted the receiver of the Chicago & Milwaukee Electric Railway Co. to accept the offer of the COLUMBIA CONSTRUCTION CO. to buy about $1,000,000 worth of preferred bonds to finance the completion of the road. Work on the road will be pushed to early completion. With the financial arrangement assuring the completion of the Chicago & Milwaukee Electric Ry. sealed by court action, steps were taken for the immediate prosecution of the construction work remaining. Noted fully on May 7. The Fidelity Trust Co., the receiver for the C. & M. Ry., in Milwaukee, was authorized on May 11 to employ R. B. Stearns to supervise the completion of the road within the city of Milwaukee at $500 a month from April 20.

JANESVILLE, WIS.—Surveys are being made for the proposed Janesville & Madison Elec Ry. will run from Main and Milwaukee Sts., Janesville, to Madison, via Edgerton, Stoughton, Lake Kegousa, Lake Waubesa and South Madison. Joseph Ellis is Ch. Engr.

DES MOINES, IOWA.—A. O. Anderson, Secy., Lake City, Iowa, advises us that surveys are being made for the Des Moines & Sioux City R. R. by E. G. Killey, Engr.-in-Charge, Geneva, Ill. This electric railroad will extend from Des Moines to Sioux City, via Lake City and Sac City. The section between Des Moines and Sac City, 120 miles, will be built first. Right-of-way is being obtained and arrangements are in progress for capital for construction. Contracts probably will not be let until next fall or winter. Company is a stock company with capital of 25% to 50% cost of construction, balance of money to be raised by sale of bonds. Officers are as follows: Pres., S. N. Elwood, Sac City; Vice-Pres., M. H. Miller, Fort Dodge; Secy., A. O. Anderson, Lake City; Treas., E. M. Bailey, Sac City. Noted on April 23.

EMMETSBURG, IOWA.—M. H. Miller, Vice-Pres. of the Spirit Lake, Emmetsburg & Fort Dodge R. R. Co., Fort Dodge, Iowa, informs us that preliminary survey has been made for this proposed railway, which will be built from Fort Dodge to Emmetsburg and Spirit Lake, 110 miles. Greater part of right-of-way is secured. Capital has been partly obtained. The company will operate an amusement park seven miles north of Fort Dodge, and also furnish current from its own power station to towns along the route. The repair shops are to be located at Emmetsburg. The officers of this company are as follows: T. F. McCartan, Pocahontas, Pres.; M. H. Miller, Fort Dodge, Vice-Pres. and Acting Gen. Mgr.; P. O. Refsell, Emmetsburg, Secy., and D. O. Johnson, Emmetsburg, Treas. The Spirit Lake, Emmetsburg & Fort Dodge Railway was incorporated on July 11, 1907. Capital stock, $500,000. Previously noted.

FARGO, N. DAK.—WHITE & McCOY, of Fargo, have contract for grading on the Northwestern Interurban Ry. This electric line will be about 40 miles long. Officers are: Pres., C. N. Callande, of Fargo; Treas., E. H. Probstfield; Secy., A. T. Russell. D. L. Buckingham, Cormorant, Minn., is Ch. Engr.

BOZEMAN, MONT.—H. L. Casey, Secy. of the Gallatin Valley Elec. Ry. Co., Bozeman, informs us that this company proposes to build an electric line from Bozeman to Salesville, 26 miles. Right-of-way is partly secured. Preliminary survey has been made and capital mostly obtained. C. N. Jacquette, Bozeman, is Ch. Engr. Noted on April 2.

LOUISIANA, MO.—We are officially informed that no final plans have been made yet by the Louisiana Light, Power & Traction Co., which will build an electric line between Louisiana and Bowling Green, Pike County. It will be eleven miles long. Company expects to take up the matter more fully later. Capital stock, $200,000. Power house and repair shop will be located at Louisiana. L. Turnbolt is Pres. and Gen. Mgr., and F. E. Murray, Secy., of Louisiana.

NEVADA, MO.—C. C. McFann, Gen. Mgr. of the Kansas City & Springfield Southern Ry., has announced that it is probable that no work will be begun by this company on its proposed line this year, owing to financial conditions. As noted on Jan. 9, surveys have been made by this company, which proposes to build an electric railway between Nevada and Springfield, with a branch line to Carthage. The present capital stock is $3,750,000, to be increased to $4,500,000. The total length of the line, including sidings, will be 140 miles. Motive power will be electricity, to be furnished from a power station which is to be built near Arcola, Mo. The company will also own and control an amusement park near the Sac River. The officials of the Kansas City & Springfield Southern Ry. Co. are as follows: W. B. Forsyth, Pres.; S. A. Wight, Secy.; J. W. Creekman, Treas.; C. C. McFann, of Nevada, Mo., Gen. Mgr., to whom all communications should be addressed.

EL PASO, TEX.—Capt. Thomas A. Davis, Pres. of the El Paso Military Institute, who recently applied for permission to build an electric railway from El Paso to the institute, by way of Fort Bliss, advises us that the Government has not yet granted right-of-way through Fort Bliss, and if this is not granted the line will not be built.

SAN ANGELO, TEX.—The Angelo Power & Traction Co. has been incorporated, with $50,000 capital, to build a street railway in this city. Incorporators: J. H. Ransom, J. A. Williams, W. D. Fuller, T. M. Vaughan and J. Curtys Simmons.

SEATTLE, WASH.—The Seattle-Tacoma Short Line Co. has awarded contract for construction to A. D. McINNES, of Seattle. Merle J. Wightman, American Bank Bldg., Seattle, is Gen. Mgr. Noted on Jan. 2.

HOLBROOK, ARIZ.—H. Lee Chilson, of Winslow, Ariz., has been granted a franchise to build an electric railway from Holbrook to Fort Apache.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The Enfield Power Co. has been organized in Springfield with a capital of $6,000,000 for the purpose of building a power plant on the Connecticut River at Warehouse Point and aiding the United States Government in opening river to navigation between Springfield and Hartford. Charles H. Tenney, Clifton A. Crocker and Charles T. Shean, of Springfield; Lyman A. Upson and Arthur R. Leete, of Thompsonville, Conn.; Ambrose Clogher, of Pittsburg, and Alexander Clogher, of New York, N. Y., are Dirs. It is proposed to petition Congress for a charter for the company, and authority to build the dam with a lock and a power-house for the development of 45,000 HP.

HARTFORD, CONN.—The contract for furnishing electrical fixtures for the State Arsenal has been awarded to the BRADLEY & HUBBARD CO., of Meriden, Conn.

SCHAGHTICOKE, N. Y.—We are officially advised that the HUDSON VALLEY CONSTRUCTION CO., Troy, N. Y., has been awarded the entire construction contract for the power-house to be erected for the Schaghticoke Electric Co. Viele, Blackwell & Buck, 49 Wall St., New York, N. Y., are Consult. Engrs.

ALBANY, N. Y.—The Caroga Valley Power Co. will have plans prepared for three power-houses. Mortimer Everest is Pres.

*BINGHAMTON, N. Y.—Bids were received on May 14 by the State Commission in Lunacy, Albany, for the work of furnishing and installing boilers and steam fitting at the power-house, Binghamton State Hospital, Binghamton, N. Y. The divisions of the bid were: (1) To furnish Babcock & Wilcox boiler; (2) to furnish Heine Boiler; (3) to furnish some other kind of water tube boiler: James H. Merritt & Co., 48 Cliff St., New York (1) $27,309; (2) $25,214, (3) 25,219; Evans, Almirall & Co., 281 Water St., New York (1) $27,700, (2) $28,000, (3) $25,750; John W. Danforth Co., 70 Ellicott St., Buffalo, N. Y. (1) $25,338, (2) $23,983, (3) $23,336; R. T. Ford Co., 206 South Ave., Rochester, N. Y.(1) $24,800,(2) $24,800, (3) $21,150; Gaylord Eitepence, Binghamton, N. Y. (1) $24,043, (2) $21,973, (3) $22,773; Heine Safety Boiler Co., 11 Broadway, New York (1) no bid, (2) $20,950, (3) $20,250; Lavell, McLoud & Co., Elmira, N. Y. (1) $25,586, (2) $24,022, (3) $22,000; Thomas E. Gilday, Syracuse, N. Y. (1) $24,896, (2) $24,000, (3) $22,896; Barr & Creelman, 24 Exchange St., Rochester, N. Y. (1) $25,083, (2) $24,038, (3) $23,069; Edward P. Bates, 310 Broadway, Albany, N. Y. (1) $28,350, (2) $27,750, (3) $26,750.

Bids were also received by the Commission on the same day for the reconstruction of the power house at the Binghamton State Hospital, Binghamton, N. Y.: Mosier & Summers, Main & Kensington Sts., Buffalo, N. Y., $19,100; John Dyer, Jr., Albany County Bank Bldg., Albany, N. Y., $18,390; M. T. Ford, Binghamton, N. Y., $20,982; A. E. Stephens, Western A[illegible] Albany, N. Y., $23,995; W. R. Richard[illegible]son, Utica, N. Y., $22,756; R. T. Ford [illegible] 206 South Ave., Rochester, N. Y., $21,0[illegible] M. Stipp Construction Co., Scranton, [illegible] $21,632.

GENEVA, N. Y.—The [illegible] Electric Co. has decided to erect a [illegible] plant for furnishing electricity to [illegible]va, Waterloo and Seneca Falls. F. [illegible]ame, Consult. Engr. for the Electric [illegible] Securities Co., of New York, N. Y., the [illegible] company for the local concern, is in [illegible] with authority to make arrangements [illegible] the erection of the new plant. Plans a[illegible]fications are being prepared and it is [illegible] that the new plant will be in operatio[illegible] autumn. It is proposed to locate the [illegible]t in Border City.

NEW YORK, N. Y.—T[illegible]llowing bids were received on May 18 b[illegible] J. Snyder, Supt. School Bldgs., Dep[illegible]ucation, for (a) installing electric equ[illegible]n additions to and alterations in Publi[illegible] No. 75, on the corner of Evergreen A[illegible] Grove St., Boro. of Brooklyn; (b) [illegible]ng electric equipment in new Public S[illegible] No. 156, on Sutter Ave., Grafton and B[illegible] Sts., Boro. of Brooklyn; (c) installing [illegible] equipment in new Public School No. [illegible] on Ashford St., Belmont Ave. and Wa[illegible] St., Boro. of Brooklyn; L. K. Comsto[illegible], 114 Liberty St., (a) $9,632, (b) [illegible]1; Peet & Powers, 45 West 34th St., [illegible] $8,947, (b) $17,237, (c) $10,560; F. Fr[illegible]k Jackson, Inc., 592 Columbus Ave., [illegible] $8,813, (b) $.6 853, (c) $10,995; Griffin [illegible] 116 Nassau St., (a) $9,413, (c) $12[illegible] Commercial Construction Co., 114 East [illegible]t., (a) $8,224, (b) $16,884, (c) $9,952; [illegible]den & De Young, 237 Broadway, (b) $1[illegible], (c) $10,800; Brown & McClure, 35 [illegible] 21st St., (b) $16,870; Reis & O'Donov[illegible] 1123 Broadway, (b) $16,938, (c) $10,11[illegible]

NORRISTOWN, PA.—W. G[illegible]sdon, Supt. of the municipal lighting pla[illegible] advises us that the contemplated improv[illegible]ents to the system consist of placing wires underground. Bids for this work will be received in June. Noted on April 30.

STROUDSBURG, PA.—The Stroudsburg & Water Gap Street Ry. Co. contemplates increasing its power-house equipment and will let contracts soon for a 250-HP. slow-speed engine and a 100-HP. boiler. H. E. Sweeny is Pres.

GREENSBURG, PA.—At a recent meeting of the Westmoreland County Poor Board the contract for the erection of a new heating plant, 47 × 47 ft., with a smokestack 90 ft. high, was awarded to THOMAS E. WIBLE, of Greensburg, for $12,400.

UNIONTOWN, PA.—The City Councils have awarded the WEST PENN ELECTRIC CO., of Connellsville, Pa., the contract for furnishing 156 street arc lights at $70 each a year, the contract to run until Jan. 1, 1912. The next bid was that of the Welsbach Co., which was at the rate of $25 a light per year, but this bid was for gas light, and was rejected.

WINDBER, PA.—The Berwind-White Coal Mining Co., Betz Bldg., Philadelphia, Pa., has awarded the contract for the equipment for the central power plant that will be built here to the WESTINGHOUSE ELECTRIC & MFG. CO. and to the WESTINGHOUSE MACHINE CO., both of Pittsburg. This plant will generate power for all of the company's mines here, and the contract calls for two 1,500-HP. steam turbines; two 1,500-HP. turbo-electric generators; six 500-HP. rotary generators; 18 transformers; two 500-HP. motors, complete switchboard and all station and sub-station equipment and appliances.

BALTIMORE, MD.—The United Amusement Co., lessee of Electric Park, has awarded contract to the CONSOLIDATED GAS, ELECTRIC LIGHT & POWER CO., Continental Bldg., for electricity for lighting the park. The contract calls for electricity for 40,000 incandescent lamps. Electrical energy for the system will be supplied from the Westport power-house. A substation will be erected in the park. Max Rosen is Mgr. of the park.

WASHINGTON, D. C.—The following bids were opened by the Chief Signal Officer, U. S. Army, Washington, D. C., on May 8 for furnishing 8,000 ft. cable, type 306: Standard Underground Cable Co., Pittsburg, Pa., 19.4 cts. per ft.; National Electrical Supply Co., Washington, D. C., 17.8 cts.; National Conduit & Cable Co., Philadelphia, Pa., 23 cts.; Western Electric Co., New York, 18.9 cts.

Bids will be received until May 26 at the Bureau Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the navy yards and naval stations the following supplies: Puget Sound, Wash.: Schedule 1130—15,000 ft. galvanized iron wire; 300 dry batteries and 36 dry cells; 300 lbs. micanite plate. Schedule 1133—120,000 lbs. ingot copper. Schedule 1151—Electrical supplies; connecting boxes; electric fixtures; 8,000 attachment plugs; watertight communicators; transmitters and indicators. Schedule 1153—Hard brass wire; galvanized steel wire. Mare Island, Cal.: Schedule 1132—6,700 lbs. sheet steel; 3,800 lbs. galvanized hook steel; rolled bronze; phosphor bronze. Schedule 1153—Steel plates. San Francisco, Cal.: Schedule 1131—About 4,500 ft. rubber-covered copper wire; 700 ft. copper stranded dynamo flexible cable. Applications for proposals should designate the schedules desired by number. E. B. Rogers is Paymaster Gen., U. S. Navy.

ROANOKE, VA.—The ROANOKE WATER POWER CO. is completing plans to light the streets and public parks of the city, for which contract has been secured. About 250 arc lamps will be furnished for five years. W. E. Thomas is City Clk.; W. B. Bates, City Engr. R. C. Camp is Gen. Mgr. of the Roanoke Water Power Co.

DRAKES BRANCH, VA.—Wood Bouldin, Jr., and J. S. Easley, of South Boston, Va., have made investigations with a view of establishing an electric railway from Drakes Branch to some point on the Virginian Ry. If the railway is built the towns of Drakes Branch and Charlotte Courthouse will be lighted by electricity.

SALISBURY, N. C.—The Southern Power Co. has been granted a permit to enter Salisbury, and will furnish electricity in the town. A substation is to be built jointly by the power company and the Salisbury & Spencer Ry. Co. at a cost of $20,000. Cotton mills will make use of the electrical power furnished by the Southern Power Co.

SPARTANBURG, S. C.—Electric Power & Mfg. Co. has assumed control of Spartanburg Gas & Electric Co. and contemplates improvements to the plants. F. H. Knox, Machesney Bldg., Pittsburg, Pa., is Consult. Engr.

CHESTER, S. C.—The citizens have voted $26,000 of bonds for extending the electric light and water systems. James Hamilton is City Engr. P. B. Caldwell is Mayor.

ADRIAN, GA.—The Adrian Power Works proposes to construct an electric light plant, water supply system, ice plant, etc., to cost altogether $20,000. W. W. Strickland, Adrian, is Pres. and Mgr.

CLINTON, LA.—A committee has been appointed to obtain prices and estimates for an electric light and ice plant for this town. I. L. Heyman is interested.

FRANKFORT, KY.—Paul Anderson and L. K. Frankel, of the State University, Lexington, Ky., will prepare and submit plans to the Capitol Commission for a power-house and installation of plant to furnish electric lighting, heating, etc. An appropriation of $460,000 has been made for completing and furnishing the new Capitol. Augustus E. Wilson is Governor.

CLEVELAND, OHIO.—The contract for the 1,000-KW. unit for the South Brooklyn municipal lighting plant has been awarded to the WESTINGHOUSE MACHINE CO., Westinghouse Bldg., Pittsburg, Pa., for $34,725.

CINCINNATI, OHIO.—Bausmith & Drainie, Archs., Johnson Bldg., Cincinnati, are preparing plans for a power-house to be built on Sixth St., west of Main St.

SPENCER, IND.—We are officially advised that the Reliance Engineering Co., Fourth National Bank Bldg., Cincinnati, Ohio, has charge of the construction of electric light plant and water-works system for Spencer. The cost of the plants is estimated at $35,000. The lighting plant will have an output of 200 KW. There will be 60 arc lamps of 1,200 c. p. and 4,000 16-c. p. incandescent lamps. Bids will be received at once for yearly contracts on meters, lamps, transformers, etc.

MARQUETTE, MICH.—The Board of Light and Power Commissioners, Marquette, Mich., has authorized the preparation of plans and specifications for constructing a sub-station for the present electric system. It is probable that the new building will be of cement construction.

MILWAUKEE, WIS.—The Plankinton Light & Heat Co. has been granted the right to sell light and heat within the territory bounded by the Milwaukee River on the east, Wells St. on the north, Clybourn St. on the south and Sixth St. on the west. The company owns tunnels running from the Plankinton power plant westwardly to Third St., as well as smaller tunnels running under Grand Ave. to connect with the Loan & Trust Bldg. and other buildings on the north side of Grand Ave. Under the present plans it is proposed to continue the tunnel from Third St. westwardly under the alley adjoining the Davidson Theater to Fourth St. in the rear of the Boston Store.

MILWAUKEE, WIS.—Bids will be received in July for installing a heating and power plant in the Auditorium building, Milwaukee. Estimated cost, $10,000.

MADISON, WIS.—The Capitol Building Commission has awarded contract for erection of the building for the separate heating, lighting and power plant for the new State Capitol to T. C. McCARTHY, of Madison, for $108,000. The building is to be of concrete with brick facing. It will be 120 × 130 ft. and 80 ft. high. The contract includes the mason, carpenter, roofing, plastering, plumbing and electrical work. The contract for the smoke stack, which will be 200 ft. high and built of brick and concrete, will be let soon.

HINCKLEY, MINN.—The Village Council has granted a 20-year franchise to J. J. Coburn, of Cloquet, Minn., for an electric lighting plant. The franchise provides for a 10-year contract for four arc lights and 19 50-c. p. incandescent lights for street lighting purposes. It is expected that the Grindstone River will be dammed to provide power for the plant. The franchise calls for work to begin on the installment of the plant within six months and the plant to be ready for operation on or before May 2, 1909.

GENOA, NEB.—The Village Council has employed John W. Early, Columbus, Neb., to prepare plans, etc., for the proposed municipal electric lighting system, to be installed at a cost of $10,000.

WAHOO, NEB.—John Martz, Supt. of the municipal electric light plant at Seward, Neb., has been appointed consulting engineer of the proposed municipal electric light plant and water-works system, for which the citizens recently voted to issue $65,000 in bonds.

WESTPLAINS, MO.—The Martin Power Co. has secured a 50-year franchise to construct an electric and telephone system from Westplains to Ozark County.

PRAIRIE VIEW, TEX.—Bids are asked until June 8 by the Agricultural and Mechanical College, College Station, Tex., for electric wiring and plumbing for a building to be erected at Prairie View.

LYONS, COLO.—We are officially advised that the Rocky Mountain Hydro-Electric Co. will build a plant on North St. Vraim Creek, eight miles northwest of Lyons. A wood stave pipe will convey water from junction of Cabin Creek over and down east slope of Cook Mountain. Construction work has already commenced. There will be a 1,135-ft. head, with 50 sec.-ft. of water, and 4,250 HP. will be delivered by transmission line to Denver, 42 miles distant. It has not been decided when bids for construction will be received. Estimated cost, $370,000. R. M. Jones, 1142 Humboldt St., Denver, is Ch. Engr.; Frank V. Gay, Clay City, Kan., is Pres.; L. H. Dieterich, Lyons, is Res. Engr. Noted on March 19.

NEW FORT LYON (Las Animas post-office), COLO.—Bids were received on May 16 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for installing an electric lighting system at the U. S. Naval Hospital, this post: F. E. Newbery, 647 Century Bldg., St. Louis, Mo., item 1, $9,050; Western Electric Co., 463 West St., New York, N. Y., item 1, $10,300; D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., item 1, $8,652; C. L. de Muralt, 114 Liberty St., New York, N. Y., item 1, $10,780; item 2, $6,620. (Item 2 contemplates complete installation except that the Government is to furnish the poles.) R. C. Hollyday is Ch. of Bureau.

BREMERTON, WASH.—Bids are asked until June 6 at the Bureau Yards and Docks, Washington, D. C., for furnishing and installing a 5,100-cu. ft. air compressor and accessories, under appropriation Central Power Plant, Navy Yard, Puget Sound, Wash. Estimated cost, $27,500. R. C. Hollyday is Ch. of Bureau.

DEER PARK, WASH.—The County Commissioners have granted a franchise to George Nixon, of Spokane, Wash., for installation of a power plant on the Spokane River near Deer Park, which will furnish electricity or lamps and motors in Deer Park, Chattaroy and Milan. The proposed transmission line will be about 25 miles in length.

WENATCHEE, WASH.—The Valley Power Co. plans to develop water power on the Wenatchee River, five miles above Cashmere, 15 miles from here. The site of the power plant is near the present intake of the High Line Canal. The intake of the high-line ditch will be moved up the river about two miles farther to give sufficient fall, and the ditch itself will be widened and given a concrete bed. Engineers estimate that 4,000 HP. can be developed at this point. It is expected that the company will be in a position to distribute electricity in the city by the early fall. About $100,000 will be expended on the plant and the work. F. M. Schoble is Pres. of the company and W. T. Clark is Vice-Pres.

ST. JOHNS, ORE.—Plans for a substation to be built at Northern Hill near St. Johns for the Portland Railway Light & Power Co. have been completed and approved, and construction will commence at once. Plant will furnish electricity for St. Johns and Vancouver, for the draws of the new bridges. The building will be constructed so that it can be enlarged at any time and will supply the Swift packing plant when it is finished. F. G. Sykar, Portland, is Gen. Mgr. of Light and Power.

SAN FRANCISCO, CAL.—The United Railroads of San Francisco has let a contract to the GENERAL ELECTRIC CO., Schenectady, N. Y., for a Curtis steam turbine direct connected to a 5,000-KW. General Electric 3-phase, 13,200-volt generator to be installed in the North Beach power-house. It is stated that an increase in the boiler plant will be necessary. E. D. Hibbs, San Francisco, is Gen. Supt.

LEWISTON, IDAHO.—Plans are being made by the North Coast Power Co. for the construction of a power plant on the Clearwater River, near Lewiston. The plant will have a capacity of about 50,000 HP. and will furnish energy to operate a system of interurban lines connecting Lewiston with Clarkston, Asotin, Anatone, Cloverland and Pomeroy. The proposed dam is to be located on the Clearwater River, near Porter's Island, about four miles above Lewiston. Work has commenced on a temporary plant, which is to furnish power to use in the construction of the dam. Frank McKean is Engr.-in-Charge.

MINIDOKA, IDAHO.—Bids are asked at the office of the U. S. Reclamation Service, Federal Bldg., Chicago, Ill., until June 19, for furnishing electrical apparatus for use in connection with power and pumping development at Minidoka Dam, Minidoka Irrigation Project, Idaho. The estimated cost of the material to be covered by immediate purchase is $55,000 and that of the optional material about $100,000. O. H. Ensign is Ch. Electrical Engr., 25 Carroll Block, Madison, Wis.

RENO, NEV.—Bids are asked until June 1 by the Board of Commissioners for the Aged and Indigent Insane, F. L. Wildes, Secy., for construction of a brick power-house and wooden stave pipe line, approximating 45 ft. in length and 30 ins. in diameter and wooden penstock of intake, complete. S C Gibson is Supt.

*TORONTO, ONT.—Bids are asked by Hon. Adam Beck, Chn. Hydro-Electric Power Comn., Continental Life Bldg., until June 2 for construction of steel transmission towers, transmission line cable and erection of transmission system. The lines will connect Toronto and Niagara Falls and St. Thomas and Niagara Falls.

PORT ARTHUR, ONT.—Bids for building the extension of the Onion Lake dams were received as follows: Pease Bros., $7,700; E. T. ROSS & DUMONT, $7,004 (awarded contract); Seaman & Pennaman, $8,002; Stewart & Hewitson, $7,450; S. J. McCutcheon, $7,300.

CALGARY, ALTA.—Bids are asked by V. Hill, City Engr., until May 25, for constructing a power and light plant to be operated by steam. The plant will be located at Ninth Ave. and Fifth St. and will cost $50,000.

CRANBROOK, B. C.—We are officially advised that the Cranbrook Electric Light Co. has had plans prepared for a hydro-electric power plant to be built on the St. Marys River, eight miles from here. It is proposed to install three units of 500 KW. each, and, in addition to supplying Cranbrook, it is proposed to construct transmission lines to Morgie and Marysville, distant 25 and five miles, respectively. A. L. McCulloch, of Nelson, B. C., is Consult. and Des. Eng.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

RUSSELL, MASS.—Bids are asked by the Bridge Commission until 2 p. m., June 5, for the construction of a bridge over the Westfield River. E. D. Parks is Secy. Com.

STOCKBRIDGE, MASS.—The Board of Selectmen is having plans prepared for the construction of a bridge over the causeway at Lake Mackcenac.

SPRINGFIELD, MASS.—The contract for constructing the Jackson St. bridge has been awarded by the New York, New Haven & Hartford R. R. Co. to CASPER RANGER, of Springfield. The award has been in abeyance for some time.

BRIDGEPORT, CONN.—The Department of Public Works on May 11 awarded the contract to the UNITED CONSTRUCTION CO., Albany, N. Y., for repairing the lower bridge at $8,995. List of bidders noted last week.

*OSWEGO, N. Y.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a bridge over the Oswego River on the line of Utica St. Bids are asked until May 26.

*BUFFALO, N. Y.—Bids are asked until noon, June 10, for the construction of a reinforced concrete viaduct for highway and street railway travel, 1,400 ft. long, 40-ft. roadway, and two 5-ft. sidewalks. The Western New York Construction Co., 535 Brisbane Bldg., Buffalo, N. Y., are Engrs.

DAUBERVILLE, PA.—The County Commissioners have awarded to L. H. FOCHT & SON, of Reading, the contract for the construction of a reinforced concrete 4-arch bridge, 75 ft. long, here at $19,550. A. L. Rhoads is County Controller.

BEAVER, PA.—Bids are asked by the Commissioners of Beaver County, W. J. Patterson, Chn., until noon, May 25, for the construction of a reinforced concrete bridge over Stockman's Run in Big Beaver Township.

SAGAMORE, PA.—Bids are asked until noon, May 28, by the County Commissioners for the construction of a bridge over Plum Creek here. Benjamin J. Oswald is Clk. Comrs.

BEDFORD, PA.—Bids are asked until 10 a. m., June 2, by the County Commissioners for the construction of a 1-span steel bridge over Dunning's creek, East St. Clair Township. James F. Mickel is Clk. Comrs.

JOHNSTOWN, PA.—The Southern Cambria R. R. Co. on May 9 awarded to the CAMBRIA STEEL CO. the contract for the construction of a viaduct in the Tenth Ward, 1,100 ft. long, spanning the Conemaugh River, several streets and the main line of the Pennsylvania R. R., at about $35,000, and for the construction of a protection bridge near Conemaugh at about $6,800.

*PHILADELPHIA, PA.—Bids are asked until June 3 by the Department of Public Works for the construction of bridges under Schedule "A." George R. Stearns is Dir. Pub. Wks.

DONORA, PA.—We are officially advised that DUNSEATH & SON CO., 103 Park Ave., New York, have been awarded the contract by the Toledo-Massillon Bridge Co., Toledo, Ohio, for the erection of the Webster-Donora bridge.

RAPIDAN, VA.—We are officially advised that the CANTON BRIDGE CO. has been awarded contract by the County for the construction of a 3-span steel bridge with concrete abutments and piers here, at $7,366. W. E. Coons is Clk. Comrs.

PARKERSBURG, W. VA.—The Parkersburg Bridge Co., James A. Newell, East Liverpool, Ohio, Pres., has had plans prepared by E. K. Morris, Pittsburg, Pa., for the construction of a bridge across the Ohio River, between Parkersburg and Belpre, Ohio. Estimated cost, $400,000.

ENSLEY, ALA.—The Tennessee Coal, Iron & R. R. Co. will probably construct a steel bridge across Village Creek between Pratt City and Ensley. F. H. Crockard, Woodward Bldg., Birmingham, Ala., is Gen. Mgr.

BILOXI, MISS.—The Harrison County Commissioners have awarded the contract to AUSTIN BROS., of Gulfport, at $7,775 for constructing a drawbridge across the Tchoutacabouffa River, six miles from here.

CARTHAGE, TENN.—The Williams & Meyer Bridge Co. has been incorporated with a capital stock of $60,000 to construct a bridge across the Cumberland River. J. W. WILLIAMS, Carthage, is interested.

BOONEVILLE, KY.—The Ocosley Bridge Co. has been incorporated with a capital stock of $8,400. T. C. Fuller is interested.

ZANESVILLE, OHIO.—The County Engineer is preparing plans for the repair of the Dresden suspension bridge over the Muskingum River.

BELPRE, OHIO.—The Parkersburg Bridge Co. has been organized to construct a bridge to connect Parkersburg, W. Va., and Belpre. Estimated cost, $400,000.

YOUNGSTOWN, OHIO.—Bids are asked until 11 a. m., May 25, by the Board of County Commissioners for renewing the floor on the Market St. bridge with sheet asphalt. Will B. Jones is County Audr.

*WAKEMAN, OHIO.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of a concrete arch bridge over the Vermillion River here. Bids are asked until June 23. Wilbur J. Watson is Consulting Engr., Citizens Bldg., Cleveland, Ohio.

CLEVELAND, OHIO.—Bids are asked until 11 a. m., June 10, by the Board of County Commissioners, Cuyahoga County, for the construction of bridges and culverts in various townships. William F. Black is Clk. Bd.

GALLIPOLIS, OHIO.—Bids are asked until noon, June 4, by the Board of Commissioners of Gallia County for bridge work in various townships. F. F. Thornilley is County Audr.

MARTIN'S FERRY, OHIO.—ARCHER & DAY, of Bellaire, Ohio, have been awarded the contract for the construction of a culvert on Center St. at $3,600.

CHILLICOTHE, OHIO.—Bids are asked until noon, June 1, by Charles H. Pinto, County Audr., for the construction of a concrete arch culvert in Springfield Township.

VINCENNES, IND.—Bids are asked by the County Commissioners until 2 p. m., June 2, for the construction of a bridge in Busseron Township. John T. Scott is County Auditor.

RENSSELAER, IND.—Bids are asked until noon, June 1, by the County Commissioners for the construction of a wooden pile bridge, 135 × 16 ft., in Wheatfield Township.

RACINE, WIS.—A bridge to cost between $20,000 and $30,000 will be constructed by the Chicago & Northwestern Ry. Co. between Racine and Chicago across the Root River. I. F. Stern, Chicago, Ill., is Engr. of Bridges.

ST. PAUL, MINN.—L. W. Rundlett, City Engr., has prepared plans for the construction of a steel bridge across Earl St. The structure will be 1,000 ft. long and is estimated to cost $25,000.

MOUNTAIN LAKE, MINN.—Bids are asked by David Ewert, County Audr., Cottonwood County, until May 22, for the construction of a steel span bridge near Mountain Lake. Estimated cost, $20,000.

ST. PAUL, MINN.—W. H. Chadbourn, Ch. Engr., Chicago Great Western Ry. Co., St. Paul, is preparing plans for a steel-arch bridge to be built here across State St. Bids will soon be asked for by the owners. Estimated cost, $30,000.

MINNEAPOLIS, MINN.—Bids are asked until 11 a. m., June 1, by the County Commissioners of Hennepin County for the construction of Bridge No. 11 Hugh R. Scott is County Audr.

YANKTON, S. DAK.—The City Engineer has been ordered to prepare plans for the construction of a concrete bridge at Douglas Ave.

NEVADA, MO.—Bids are asked until June 3 by the city for the construction of a 60-ft. steel span and a 40-ft. steel approach. James M. Clock is County Engr.

NASHVILLE, ARK.—The Memphis, Paris & Gulf R. R. Co., C. C. Henderson, Gen. Mgr., Nashville, has awarded the contract to the KANSAS CITY BRIDGE CO., Kansas City, Mo., for constructing a 400-ft. steel bridge over Little River at Nashville.

FREDERICKSBURG, TEX.—See Manufacturing Plants.

ALBUQUERQUE, N. MEX.—The bond issue of $100,000 for bridge and road improvement authorized by Bernalillo County has been approved by the U. S. House of Representatives. The construction of two bridges to cost about $80,000 is contemplated. Alfred Grunsfeld is Chn. County Comrs.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of the construction of a pile bridge here at $5,700.

WILLOW, CAL.—The following bids were received by the Boards of Supervisors of Glenn and Butte Counties for the construction of the Granelli bridge: Hyde, Harjes & Co., $154,300; Burrell Bridge Co., $156,990; San Francisco Bridge Co., $159,320; Pacific Construction Co., $150,890; Healey, Tibbitts & Co., $157,650; Cotton Bros., $149,880.

SAN BERNARDINO, CAL.—The County Supervisors on May 5 awarded the contract for the construction of a steel and concrete bridge of four 80-ft. spans across the Santa Ana River on Mount Vernon Ave., to the CHARLES H. SEELEY CO., of Denver, Colo., at $8,990.

SHEDO, SASK.—The Saskatchewan Government will construct four steel bridges in this district this summer. F. J. Robinson is Deputy Minister Pub. Wks., Regina, Sask.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—Plans will be ready for bids for the proposed contagious hospital to be built here, in about a week. The building will be of brick and stone construction and will cost $150,000. L. G. Destremps & Son, Fall River, are Archs.

HOLYOKE, MASS.—E. H. Friedrich has awarded the contract to LOUIS CARREAU & SONS, of Willimansett, Mass., for constructing a 4-story brick block at the corner of Sargeant and Main Sts. The building will cost about $80,000 and work will be begun at once.

PITTSFIELD, MASS.—Mowbray & Uffinger, 92 Liberty St., New York, N. Y., are preparing plans for a bank building to be built on North St. for the Agricultural National Bank. It will be four stories high, 52 × 85 ft. and will cost $150,000.

PROVIDENCE, R. I.—The Committee on City Hospital has instructed Martin & Hall, Archs., Union Trust Bldg., Providence, to prepare new plans and specifications for that institution, and to bring the cost of the work within $300,000. This will mean some reduction in the size, and perhaps the number of the buildings, of which there are seven.

NEW BRITAIN, CONN.—The Building Committee, Marcus H. White, Chn., has recommended to the Common Council that the bid of The B. H. Hibbard Co., New Britain, be accepted for remodeling City Hall.

NEW BRITAIN, CONN.—Bids were received as follows May 16 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at New Britain, Conn.: F. T. Nesbit & Co., Inc., 116 Nassau St., New York, $88,200, 17 months; J. E. & A. L. Pennock, Philadelphia, $88,438; Norcross Bros. Co., 10 East Worcester St., Worcester, Mass., $105,815, 15 months; Horton & Hemenway, 683 Atlantic Ave., Boston, Mass., $93,988, Dec. 15, 1909; Woodberry & Leighton Co., 166 Devonshire St., Boston, Mass., $88,888; Conners

Bros. Co., 159 Plain St., Lowell, Mass., $91,000; Wheaton Bldg. & Lumber Co., Putnam, Conn., $94,747; B. H. Hibbard Co., New Britain, Conn., $98,500; King Lumber Co., Charlottesville, Va., $91,883; W. H. Fissell & Co., Washington, D. C., $90,973; Bottsford-Dickinson Co., 1170 Broadway, New York, $96,987, Sept. 30, 1909. Time, March 31, 1910.

NEW YORK, N. Y.—Bids are asked by Robert W. Hebberd, Comr. of Public Charities, until 2.30 p. m., May 28, for the construction and entire completion of a staff house, and the extension of two tuberculosis infirmaries, for the Metropolitan Hospital District, Blackwells Island, Boro. of Manhattan, the City of New York.

Bids were received as follows on May 12 by Robert W. Hebberd, Comr. of Public Charities, for (a) tearing down and removal, excavation and masonry, steel and iron, roofing and metal work, carpentry, glazing, painting, hardware, and all other work (except electric, heating and plumbing work, gas and electric fixtures and fitting up); (b) electrical conduit, electric wiring and switchboard work, heating work, plumbing work, gas piping and all other work (except tearing down and removal, excavation and masonry, steel and iron, roofing and metal work, carpentry, gas and electric fixtures and fitting up); (c) for the gas and electric fixtures and fitting up, and all other work (except tearing down and removal, excavation and masonry, steel and iron roofing and metal work, carpentry, and electric, heating and plumbing work) for the erection and entire completion of a day room for male inmates in connection with the Home for the Aged and Infirm, Blackwell's Island, the City of New York: Kelly & Kelly, 45 East 42d St., (a) $28,517, (b) $5,878, (c) $370; Luke A. Burke & Sons, 25 West 42d St., (a) $31,000; Harris H. Wies, (a) $25,875; Wells & Newton Co., (b) $6,890; D. J. Ryan, 723 Third Ave., Brooklyn, (a) $23,700; Geo. D. Wallace, (b) $5,653; P. J. Brennan, Fuller Bldg., (a) $28,800; Thos. B. Leahy Bldg. Co., 1 East 42d St., (a) $25,479, (b) $5,725, (c) $998; Isaac A. Hopper, (a) $31,700.

NEW YORK, N. Y.—We are officially advised that a 15-story office building is to be erected for the Farmers' Loan & Trust Co. on the premises at 63 and 65 Beaver St. and 20 and 24 Exchange Pl., an irregular plot, 44.8 ft. front and 103.2 ft. deep. It is to be of the Renaissance type, with facades of brick trimmed with limestone, the design displaying Corinthian columns supporting a cornice at the second story and tall Doric pilasters above inclosing ornamental bays. The building will be 204 ft. high, and is to cost $500,000. Clinton & Russell, 32 Nassau St., are Archs.

The Hudson & Manhattan R. R. Co. proposes to build an arcade building at 45 to 49 Vesey St., and 205 and 207 Fulton St. The building probably will have 20 stories, 74.10 × 163.6 ft.

NEW YORK, N. Y.—We are officially advised that CRAMP & CO., Commonwealth Bldg., Philadelphia, Pa., has contract to construct a garage and office building on 57th St., between Eleventh and Twelfth Aves., for the New York Taxicab Co., 546 Fifth Ave. It will be three stories high, of stone construction, 250 × 144.11 ft., and will cost about $200,000. F. M. Andrews & Co., Waldorf-Astoria Hotel, are Archs.

NEW YORK, N. Y.—Bids are asked until 10.30 a. m., May 28, by Nicholas J. Hayes, Fire Comr., for repairs and alterations to the quarters of Engine Company 155, located on the west side of Rogers Ave., near Ave. F; Engine Company 274, Hicks St.; Engine Company 142, Fifth Ave., near 92d St.; Hook and Ladder Company 62, 1171 Madison St., and Engine Company 151 and Hook and Ladder Company 69, located at Wallabout Market, on block between E and F Sts., Washington Ave. and West St., Brooklyn.

We are officially informed that the NATIONAL FIREPROOFING CO., 115 Adams St., Chicago, Ill., has contract for all the fireproofing of terra cotta for the Fifth Avenue Building to be erected on the site of the old Fifth Avenue Hotel, New York. The fireproof quantities are approximately about as follows: Floor arches, 650,000 ft.; partitions and furring, 540,000 ft.; column covering, 100,000 ft. This building is to be fireproof throughout with terra cotta hollow tile. The AMERICAN BRIDGE CO., 42 Broadway, has contract for steel work in this building.

We are officially advised that the Master Builder Realty & Construction Co. will erect a mercantile building at 8 East Twelfth St. The structure will be 25 × 100 ft., will have twelve stories and will cost $100,000. Samuel Sass, 23 Park Row, is Arch. Bids are being taken by G. Beyers, care of Rovitch Bros., 1 Madison Ave.

NEW YORK, N. Y.—Bids are asked until 2 p. m., June 1, by John F. Ahearn, Pres. Boro. of Manhattan, for repairs and alterations to City Court-house (brownstone building), City Hall Park, Chambers St.

Bids are asked until 2.30 p. m., June 1, by Robert W. Hebberd, Comr. of Public Charities, for erection and entire completion (with the exception of fitting up) of a new Pathological building at the Kings County Hospital, Boro. of Brooklyn.

Bids are asked until 11 a. m., June 1, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for improvements and new cottage at Public School No. 120, Barren Island, Boro. of Brooklyn; for the general construction, etc., of additions to and alterations in Public School No. 128, on the northerly side of 21st Ave., between 83d and 84th Sts., Boro. of Brooklyn; for installing heating and ventilating apparatus in new Public School No. 156, on Sutter Ave., Grafton and Barrett Sts., Boro. of Brooklyn; for the general construction, etc., of new Public School No. 162, on the northerly side of St. Nicholas Ave., between Willoughby Ave. and Suydam St., Boro. of Brooklyn; for the general construction, etc., of additions to and alterations in Public School No. 30, on the corner of 141st St. and Brook Ave., Boro. of the Bronx; for the installation of water heater, equipment of cooking room, etc., at Public School No. 35, on 163d St., Grant and Morris Aves., Boro. of the Bronx; for alterations and additions to the electric equipment in Public School No. 90, on 147th and 148th Sts., west of Seventh Ave., Boro. of Manhattan; for new fireproof main stairs at Public School No. 116, East 32d St., near Third Ave., and Public School No. 127, at 515 West 37th St., Boro. of Manhattan; for repairs to heating and ventilating apparatus at Public Schools Nos. 17 and 20, and Curtis High School, Boro. of Richmond.

NEW YORK, N. Y.—The following bids were received on May 18 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for the general construction, etc., of new Public School No. 160, on the southerly side of Fort Hamilton Ave., between 51st and 52d Sts., Boro. of Brooklyn: W. J. Moran, 90 West Broadway, $206,996; J. Kennedy & Co., 1133 Broadway, $199,900; J. F. Reilly, $198,698; James McArthur, 22 Ormonde Pl., Brooklyn, $197,723; Peter Guthy, 924 Broadway, Brooklyn, $204,769; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $197,300; Thomas McKeown, 512 West 110th St., $213,100; Gannon & O'Brien, $208,343; George F. Driscall, 548 Union St., Brooklyn, $198,400; William Werner, 892 Forest Ave., $218,470.

The following bids were received at the same time and place for the general construction of new Public School No. 101, on the north side of East 111th St., about 43 ft. west of Lexington Ave., Boro. of Manhattan: Blake & Williams, 211 West 20th St., $33,734; E. Rutzler & Co., 127 White St., $31,827; Frank Dobson & Co., 319 East 53d St., $29,888; Daniel J. Rice, 5 East 42d St., $34,823; William J. Olvaney, 177 Christopher St., $38,308; Raisler Heating Co., 206 Broadway, $32,620; John Hankin & Bro., 53 West Houston St., $31,937; Gillis & Geoghegan, 537 West Broadway, $31,450; James Curran Mfg. Co., 512 West 36th St., $30,800.

The following bids were received at the same time for installing heating and ventilating apparatus for addition to and alterations in Public School No. 4, on Rivington, Pitt and Eldridge Sts., Boro. of Manhattan: J. Kennedy & Co., 1133 Broadway, $279,965; Calumet Construction Co., 15 East 59th St., $258,417; Botsford Dickinson Co., 1123 Broadway, $274,918; James McArthur, 22 Ormonde Pl., Brooklyn, $299,000; Patrick Sullivan, 230 Grand St., $283,000; Guidone & Gilardi, 1 Madison Ave., $290,350; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $273,300; Thomas McKeown, 512 West 110th St., $291,773; William Werner, 892 Forest Ave., $288,430; P. J. Brennan & Son, Fuller Bldg., $280,250; Harry Berry & Co., 101 West 66th St., $299,400; Thomas Cockerill & Son, 147 Columbus Ave., $283,000; O'Connell & Hanna, 271 West 125th St., $278,133.

SCHENECTADY, N. Y.—Stoddart & Weathers, Archs., 33 East 17th St., New York, have been selected architects for a court-house to be built at Schenectady, costing $600,000.

UTICA, N. Y.—Edward G. Cooper, Arch., Clarendon Bldg., has been retained to prepare plans for rebuilding the Utica Free Academy for the Board of Education. Dennis Kelly, Clerk. Estimated cost, $100,000. Bids will be received by the Board in about 30 days.

FORT SLOCUM (New Rochelle post-office), N. Y.—Bids are asked by the Constructing Quartermaster until 10 a. m., June 10, for construction, plumbing, steam heating and electric wiring of one administration building and one drill hall and gymnasium.

FORT NIAGARA (Youngstown post-office), N. Y.—Bids are asked until 10 a. m., June 6, by the Constructing Quartermaster, Fort Niagara, for constructing, plumbing, heating and electric wiring a post exchange and gymnasium building at this post.

SYRACUSE, N. Y.—Russell & King, Archs., Snow Bldg., Syracuse, have completed plans for a 4-story building for the House of Providence. Cost, $100,000.

ROCHESTER, N. Y.—Plans for the portion of School No. 26 to be erected this year have been filed with the Fire Marshal. The estimated cost of the work to be done this year is $130,000. The school is to be of brick, two stories in height, with a basement. The main entrance will be on Clifford Ave., where there will be double doors. The steps will be of cement. There will also be entrances on Henry and Thomas Sts. and two entrances on Weeger St. In the center of the school building there will be an assembly room and over this will be a court to the roof. The school rooms will be around the sides of the assembly room, which is to be 70 × 100 ft. In the basement there will be shower baths, a plunge, locker rooms and a manual training room.

MIDDLETOWN, N. Y.—The bids received by the State Lunacy Commission, T. E. McGarr, Secy., on May 14th, for the construction of the Nurses Home at the Middletown State Hospital, Middletown, including heating, plumbing and lighting, were (1) to do entire work, (2) add if tile is used for roofs instead of slate, (3) add if face brick is substituted for common brick (4) deduct if stud construction is used above third floor, (5) deduct if temporary boiler is not required: O'Connell & Hanna, 271 West 125th St., New York, (1) $102,982, (2) $1,000, (3) $2,100, (4) no bid, (5) $500; M. Stipp Construction Co., Scranton, Pa., (1) $83,900, (2) $4,224, (3) $2,068, (4) $1,367, (5) $600; R. T. Ford Co., 206 South Ave., Rochester, N. Y., (1) $76,757, (2) $2,265, (3) $1,200, (4) $777, (5) $500; W. R. Richards & Son, 42 Elizabeth St., Utica, N. Y., (1) $92,077, (2) $2,085, (3) $900, (4) $1,000, (5) $500; A. E. Stephens Co., Western Ave., Albany, N. Y., (1) $86,100, (2) $2,500, (3) $1,330, (4) $800, (5) $1,000; Peter Keeler Building Co., 468 Orange St., Albany, N. Y., (1) $90,500, (2) $2,000, (3) $1,350, (4) $770, (5) $900; Paul J. Exner Co., 149 East 15th St., New York, (1) $87,100, (2) $2,948, (3) $1,496, (4) $498, (5) $700; George Sykes, 1123 Broadway, New York, (1) $81,800, (2) $1,000, (3) $1,000, (4) $900, (5) $100; Mosier & Summers, Main and Kensington Sts., Buffalo, N. Y., (1) $74,925, (2) $2,200, (3) $1,200, (4) $1,200, (5) $1,000; W. R. Compton Building & Realty Co., Elmira, N. Y., (1) $85,027, (2) $2,912, (3) $899, (4) $1,949, (5) $350.

BINGHAMTON, N. Y.—Bids were opened on May 14 by the State Commission in Lunacy, Albany, for the construction of a nurses home at the Binghamton State Hospital, at Binghamton, the divisions of the bid being as follows: (1) To do entire work, including heating, lighting and plumbing; (2) add if tile is used for roofs instead of slate; (3) add if face brick is substituted for common brick; (4) deduct if stud construction is used above third floor. M. T. Ford Co., Binghamton, N. Y., (1) $80,879, (2) $4,300, (3) $2,782, (4) $650; W. R. Compton Realty & Building Co., Elmira, N. Y., (1) $87,003, (2) $2,912, (3) $899, (4) $1,949; John Dyer, Jr., Albany County Bank Bldg., Albany, N. Y., (1) $80,640, (2) $4,500, (3) $1,170, (4) $346; M. Stipp Construction Co., Scranton, Pa., (1) $83,900, (2) $4,224, (3) $2,068, (4) $1,367; R. T. Ford Co., 206 South Ave., Rochester, N. Y., (1) $80,576, (2) $2,265, (3) $1,200, (4) $777; W. R. Richards & Son, 42 Elizabeth St., Utica, N. Y., (1) $91,118, (2) $2,085, (3) $900, (4) $1,000; A. E. Stephens, Western Ave., Albany, N. Y., (1) $82,477, (2) $2,500, (3) $1,330, (4) $800; George Sykes, 1123 Broadway, New York, (1) $82,000, (2) $1,000, (3) $1,260, (4) $900; Mosier & Summers, Main and Kensington Sts., Buffalo, N. Y., (1) $73,775, (2) $2,200, (3) $1,200, (4) $1,200. T. F. McGarr is Secy. See Light and Power Plants.

PRINCETON, N. J.—W. R. MATTHEWS, Princeton, has the general contract to construct a 3-story fireproof stone and steel dormitory, 40 × 60 ft. and 195 × 35 ft., for the Class of 1877, University of Princeton. Cost, $200,000.

CAMDEN, N. J.—Bids are asked by Joshua C. Jeffries, Arch., Philadelphia, Pa., until May 25, for erecting a 5-story Y. M. C. A. building at Camden, to cost about $150,000.

Bids are asked until May 23 by the Pennsylvania R. R. Co. for erecting a passenger station on Broadway, Camden. There will be four platforms, two for the electric and two for the steam trains. Alexander C. Shand, Philadelphia, is Ch. Engr.

*JERSEY CITY, N. J.—Bids are asked by the New County Building Committee of the County of Hudson, N. J., at its office, 573 Newark Ave., Jersey City, until 3 p. m., June 10, for the interior work of the new court-house, and the power-house building and equipment. Hugh Roberts, 1 Exchange Pl., Jersey City, is Arch.; Alexander J. Clements, Secy. Bldg. Com.

HOPEWELL, N. J—Bids are asked until June 9 by Joseph C. Harrison, Secy. Bd. of Freeholders, Hopewell, for construction of an addition to the County Work-house.

*MEADVILLE, PA.—Bids are asked until 3 p. m., June 30, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing, gas piping, heating apparatus, electric conduits and wiring, of the U. S. post-office at Meadville.

HARRISBURG, PA.—Robert M. Catts is interested in the project to erect an 8-story fireproof hotel on the site of the present Columbia Hotel on Third and Walnut Sts., the cost to be about $400,000.

PITTSBURG, PA.—J. L. Beatty, Arch., 146 Sixth St., Pittsburg, is preparing plans for a 4 and 6-story hospital building, five wings to main building, for the West Pennsylvania Hospital Association. William Finn, Chn. Bldg. Com. Cost, $500,000.

PHILADELPHIA, PA.—Cope & Stewardson, Archs., 320 Walnut St., have invited estimates from builders on the cost of completing the building of the Veterinary Department of the University of Pennsylvania at 39th St. and Woodland Ave. The plans provide for a new wing to the present building extending on Woodland Ave. for a distance of 153 ft. with a depth of 53 ft.

NEW CASTLE, PA.—Bids are asked until noon, June 10, by the Board of School Controllers for constructing a brick and terra cotta fireproof high school building. W. J. Chain is Secy.; W. G. Eckles, Lawrence Trust Bldg., New Castle, is Arch.

BALTIMORE, MD.—The Municipal Architectural Commission has adopted plans by Theodore Wells Pietsch, American Bldg., Baltimore, for extension, remodeling and improvements to the city jail. Cost, about $150,000.

A 6-story store and warehouse building, to cost about $180,000, is to be erected at 31, 33 and 35 Hopkins Pl., for A. B. McCreery, 934 Haight St., San Francisco, Cal. The building is to be of reinforced concrete with brick outside. It will cover the entire lot, which fronts 51 ft. and has a depth of 220 ft. to Sutton St. The floors will be of concrete and the window frames and cornice of metal. The contract has been awarded to THOMAS L. JONES & SON, 410 West Saratoga St., Baltimore.

BALTIMORE, MD.—The Medical and Chirurgical Faculty of Maryland, Dr. Brice W. Goldsborough, Pres., 847 Hamilton Terrace, will have plans prepared by Ellicott & Emmart, Union Trust Bldg., Baltimore, for a library and public-health institute to be erected on Cathedral St. Cost, $200,000.

WASHINGTON, D. C.—St. Rose Industrial School building will be erected under supervision of J. J. O'Connor, 427 East Lexington St., Baltimore, Md. Plans were prepared by Francis E. Tormey, 404 Wilson Bldg., Baltimore. The building will be 150 × 120 ft., five stories high, fireproof. Cost, about $175,000.

WASHINGTON, D. C.—The time for opening bids for the ornamental plaster work for the Senate office building has been extended from May 23 to May 27. Elliott Woods is Supt. U. S. Capitol Bldg. and Grounds.

WASHINGTON, D. C.—Bids were opened as follows May 16, at the office of Elliott Woods, Supt. of the U. S. Capitol Building and Grounds, Washington, D. C., for furnishing the interior wood fittings of the new Senate Office Building, (a) [illegible] tire work in American walnut, (b) entir[illegible]k in mahogany, (c) first floor, walnu[illegible] first floor, mahogany, (e) second floor [illegible]lnut, (f) second floor, mahogany, (g) th[illegible] floor, walnut, (h) third floor, mahogany, [illegible] entire work, oak: Charles A. Langley, [illegible] Twelfth St., Washington, (a) $65,825, [illegible] $69,769, (c) $22,823, (d) $24,479, (e) $2[illegible] (f) $23,515, (g) $20,705, (h) $21,775, [illegible],257; Richardson & Burgess, Inc., A[illegible]an University Grounds, Washington, [illegible] $96,020, (b) $69,328, (i) $60,506; F. A. R[illegible] Co., Dayton, Ohio, (a) $89,163, [illegible] $105,162, (c) $29,995, (d) $35,590, (e) $2[illegible] (f) $33,330, (g) $28,937, (h) $34,242, [illegible]163; J. C. Vreeland Building Co., 1 M[illegible] Ave., New York, (a) $85,229, (b) $86,[illegible] $76,800; Batavia & New York Wood[illegible] Co., Batavia, N. Y., (a) $80,400, [illegible] $87,700, (i) $76,700; A. Wilt & Sons, 71[illegible] North Front, Philadelphia, (a) $87,000, [illegible] $96,500, (i) $82,500; American Car & Fo[illegible] Co., Wilmington, Del., (a) $74,416, [illegible] $76,335, (c) $24,826, (d) $25,425, (e) $25,[illegible] (f) $26,390, (g) $23,860, (h) $24,520, (i) [illegible]26; Wollager Mfg. Co., Milwaukee, Wi[illegible] $80,300, (b) $84,950, (i) $77,800; A. & [illegible] Wilson Co., 541 Third Ave., Pittsburg, (a[illegible] $96,893, (b) $105,349, (i) $92,750; Meader [illegible]iture Co., First National Bank Bldg., Ci[illegible]nati, Ohio, (a) $55,500, (b) $56,500.

*SUMTER, S. C.—Bids are [illegible] until 3 p. m., June 29, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction (includi[illegible] plumbing, gas piping, heating apparatus, [illegible]tric conduits and wiring) of the U. S. post-office at Sumter.

JACKSONVILLE, FLA.—The [illegible]a Investment Co., E. G. Phinney, Pres., and Cromwell Gibbons, Vice-Pres., is reported to be planning the erection of a 10-story steel building at Hogan and Forsyth Sts., to cost about $300,000. Plans and specifications are about completed, and bids for the erection will be asked probably this month.

Mowbray & Uffinger, Archs., 92 Liberty St., New York, are preparing plans for a 10-story bank and office building for the Atlantic National Bank, Jacksonville, to cost $200,000.

NEW ORLEANS, LA.—Albert Aschaffenburg, 821 Baronne St., has awarded contract to the FERRO-CONCRETE CONSTRUCTION CO., Richmond and Harriet Sts., Cincinnati, Ohio, for erection of an apartment house, four stories, 100 × 60 ft.; ferro-concrete construction throughout. Plans were prepared by Mackenzie & Biggs, New Orleans; E. Weil, 616 Hibernia Bldg., New Orleans, is Associate Arch.

CINCINNATI, OHIO.—Bids are asked until May 26 by Harry Hake, Arch., Union Trust Bldg., for constructing a 10-story bank building for the Provident Savings Bank & Trust Co. Cost, $250,000.

CLEVELAND, OHIO.—We are officially advised that the NATIONAL FIRE PROOFING CO., 115 Adams St., Chicago, has secured contract to furnish and install all the terra cotta hollow tile fireproofing for the Cuyahoga County court-house at Cleveland, which will require about 8,000 tons of standard material.

J. Milton Dyer & F. G. Bates, Cuyahoga Bldg., will have plans ready about June 1 for estimates for the 5-story warehouse and store building for The Sterling & Welch Co., 216 Euclid Ave. Cost, $200,000.

FORT WAYNE, IND.—Mahurin & Mahurin, Archs., will prepare plans for a 3-story lodge building for the Scottish Rite. W. W. Rockhill, Secy. Bldg. Com. Cost, about $100,000.

INDIANAPOLIS, IND.—An appropriation of $50,000 has been made for a Federal building to be built in Princeton. In addition to this, the appropriation bill provides for $100,000 for a Federal building in Connersville, $85,000 for a building in Bedford, $100,000 for a building in Brazil, $50,000 for a building in Green Castle, $125,000 for a building in Laporte, $50,000 for a building in Alexandria, $50,000 each for buildings in Winchester, Decatur, Elwood, Bluffton and Portland, $100,000 for a building in Kokomo, $125,000 for a building in Frankfort, $75,000 for a building in Wabash, $75,000 for a building in Jeffersonville and $100,000 each for buildings in Mishawaka and Goshen. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

MUSKEGON, MICH.—Bids are asked by the Trustees of the Public Schools of Muskegon, at Hackley School, Muskegon, until noon, May 22, for erection of a high school building. Robinson & Campau, 434 Houseman Bldg., Grand Rapids, Mich., are Archs. William Carpenter is Secy.

CHICAGO, ILL.—The Peoples Gas Light & Coke Co. has secured the site on which to erect the $1,500,000 office building it has planned at the corner of Michigan Ave. and Adams St. The land has a frontage of 26 ft. and runs 179 ft. to an alley.

We are officially advised that the contract for constructing a 12-story reinforced concrete building, 60 × 100 ft., for M. Born, at 342 Fifth Ave., has been awarded to the ALLING CONSTRUCTION CO., 72 Madison St., Chicago. Sub contracts have been let as follows: HERBERT RIPLEY, wrecking; ZANDER-REUN, plastering; FREEMAN & SWEET, electric wiring; WALSH & MASTERSON, pile driving; ATLAS ROOFING CO., roofing; PURDY & HENDERSON, engineering; KELLOGG-McKAY-CAMERON, sprinkler; AMERICAN LUXFER PRISM CO., prismatic lights; H. SHEFF, plate glass; CHESTER N. MARTHENS MARBLE CO., marble; HANLEY CASEY CO., Plumbing; KNISLEY BROS., sheet metal; BROWN BROS., ornamental iron; J. B. NOELLE, painting; VARIETY MFG. CO., iron other than ornamental; NATIONAL FIREPROOFING CO., tile.

IOWA CITY, IOWA.—The Board of Regents of the State University of Iowa, has approved the plans of Proudfoot & Bird, Crocker Bldg., Des Moines, for a 250,000 Law Building, and work will be begun on the new structure as soon as bids can be received. George E. McLean is Pres.

ST. PAUL, MINN.—The Hamm Brewing Co. has awarded the contract for excavating and laying the foundation for the department store to be built on Seventh and Robert Sts., to F. J. ROMER & SON, 200 Ramsey St., city. It will be four stories high of brick and cut stone fireproof construction. Cost, complete, $250,000.

Buechner & Orth, Archs., Manhattan Bldg., city, are preparing plans and will receive bids soon for a 3-story pressed brick and cut stone fireproof Masonic temple to be built at Sixth St. and Smith Ave., St. Paul. E. I. Whitney is Chn. of the Bldg. Com. Cost, $125,000.

Reed & Stem, Archs., Endicott Bldg., are preparing plans for construction of an 11-story pressed brick and cut stone hotel to be built here on Fifth, Fourth and St. Peter Sts. It will be of fireproof construction, having electric elevators, cafe, marble, tile and mosaic work. L. P. Ordway, Fifth and Rosabel Sts., is the owner. Cost, $775,000.

KANSAS CITY, MO.—The Sisters of St. Mary are having plans prepared by Howe & Hoit, 313 East Tenth St., Kansas City, for erection of a 3-story hospital building of brick and stone construction. Cost, $200,000.

LITTLE ROCK, ARK.—The State National Bank will erect a bank and office building to cost about $300,000, and contemplates organizing a company to finance the proposition. Preliminary plans prepared by George R. Mann, Mann Bldg., Little Rock, call for building ten stories high, 50 × 140 ft., of steel and concrete. Charles McKee is First Vice-Pres.

FAYETTEVILLE, ARK.—Bids are asked until 3 p. m., June 24, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for constructing U. S. post-office at Fayetteville.

PINE BLUFF, ARK.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract to JACOB ALTHAUS, St. Louis, Mo., contract for the construction of a post-office at Pine Bluff, Ark., at $65,440. Time, July 15, 1909.

FORT WORTH, TEX.—It is stated that the Fort Worth & Denver City Ry. Co. will expend about $700,000 for building and improving depots in Texas. H. A. Gausewitz, Childress, Tex., is Supt. R. C. Gowdy, Fort Worth, is Res. Engr.

•FORT WORTH, TEX.—Bids are asked until 3 p. m., June 16, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing plumbing, gas piping, etc., in the extension to the U. S. post-office and court-house, Fort Worth.

FORT SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Constr. Q. M., until 11 a. m., June 11, for the construction at Fort Sam Houston of eight cavalry stables, one Q. M. stable, one field staff and band stable, and one bakery.

•HOUSTON, TEX.—The time for opening bids for the construction of the U. S. post-office and court-house at Houston has been extended from May 28, to 3 p. m., June 18. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

FREDERICKSBURG, TEX.—See under Manufacturing Plants.

GREENVILLE, TEX.—Bids are asked until 3 p. m., June 25, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for construction complete of U. S. post-office at Greenville.

OKLAHOMA CITY, OKLA.—An office structure, eight stories high, fireproof and modern, will be erected at the corner of Main St. and Broadway by P. L. Bassett, El Paso, and N. F. Gates, Oklahoma City. Work will begin as quickly as plans may be agreed upon by the architects. The building will cost $250,000. The property upon which the proposed structure will be located extends 74 ft. along Main St. and 141 ft. on Broadway.

OKLAHOMA CITY, OKLA.—N. F. Gates, of Oklahoma City and P. L. Bassett, El Paso, Tex., are planning to build office structure, eight stories high, of fireproof construction, 74 × 141 ft. Estimated cost, $250,000.

DENVER, COLO.—The Denver Union Stock Yards Co. has had plans completed for a pavilion to cost $200,000.

PORTLAND, ORE.—We are officially advised that the Portland Country Club and Live Stock Association will improve its grounds and erect buildings as follows: One-mile race track, containing 70,000 cu. yds. excavation. WESTERN CONTRACTING & ENGINEERING CO., contractors. Work will be completed about June 15. L. E. BARBER, contractor, is erecting eight race horse stables, 40 × 120 ft., to be completed July 15. Contract for the erection of five show horse stables, 36 × 229 ft., will be let at once. To be completed in 60 days. Contract for the erection of five show stables for cattle, sheep and swine will be let about June 29. Size, 65 × 185 ft. Contracts for erection are awarded separately from lumber hardware and cement contracts. Grand-stand with seating capacity of 2,550 will have roof supported by cantilever trusses on lattice posts with concrete foundations. AMERICAN BRIDGE CO., of Chicago, has been awarded contract for steel work.

Auditorium for horse shows and exhibitions of fine stock will be 182 × 292 ft. with 80 × 190-ft. arena. It will not be erected until later in the season. Edgar M. Lazrus, Worcester Block, Portland, Ore., is Arch. Newell, Gossett & Walsh, 32 Washington Bldg., Portland, are the Engrs. and Superintendents.

SEATTLE, WASH.—Plans will be prepared by Ripley & Russell, Archs., Johnston Bldg., for the proposed First Baptist Church, to cost $175,000. Plans will be ready Aug. 1.

SAN FRANCISCO, CAL.—We are officially advised that John B. Rogers, Ch. Engr. Ocean Shore Ry. Co., San Francisco, is preparing plans for a proposed union depot to be built at the junction of Market St. and Van Ness Ave. The station and terminal tracks will occupy the entire block bounded by Market, Mission, Eleventh and Twelfth Sts. The plans call for an 11-story Class A building, with a frontage of 550 ft. on Market St. and wings fronting 550 ft. on both Eleventh and Twelfth Sts. Properties for the site are being secured. Noted fully on April 2.

The Doe Estate Co. will erect an office structure to be known as the Doe Estate Company Building. The site for the building has 85 ft. frontage on Kearny St., 41 ft. on Sutter St. and a depth of 107 ft. The construction will be Class A. Havens & Toepke, Mutual Savings Bank Bldg., are Archs.

SACRAMENTO, CAL.—The contract to erect the Sacramento Hotel here has been let to the RANSOME CONCRETE CO. OF CALIFORNIA, Eighth and Harrison Sts., San Francisco. The site of the hotel is at the corner of Tenth and K Sts., with a 160-ft. frontage on Tenth St. The building will be of reinforced concrete throughout, with concrete floors and stairways, and will be of fireproof construction. Seilon & Hemmings, 1070 Geary St., San Francisco, are Archs., Alden Anderson is Pres. Sacramento Hotel Co.

YREKA, CAL.—The Board of Supervisors invites submission of plans until 10 a. m., June 10, for the construction of a fireproof Hall of Records. The building is to be 30 × 60 ft. with a 20-ft. ceiling, all inside measurements. W. J. Nelson is Clerk.

SAN DIEGO, CAL.—Henry Timken has taken out a permit to build an 8-story reinforced concrete building, at the corner of Sixth and E Sts., which is to cost about $225,000.

HALIFAX, N. S.—FAULKNER & McDONALD, of Sydney, N. S., have secured the contract for erection of the technical college to be built in this city. Other bidders were S. Marshall & Son, M. E. Keefe and Rhodes, Curry & Co., of Halifax.

MONTREAL, QUE.—The Special Commission appointed to secure a site for the proposed technical school has acquired property on West Sherbourne St. Upon this a building will be erected at a cost of $350,000. Peter Lyall, 88 King St., representing the Board of Trade, was a member of the Commission.

OTTAWA, ONT.—V. Gauthier, of Montreal, Que., has prepared plans for the Sacred Heart Church, to be erected at a cost of $100,000.

WINNIPEG, MAN.—The Devon Court Apartment Co., Ltd., has taken out a building permit for the erection of an apartment block on the corner of Broadway and Edmonton St. The structure is to be four stories in height and will cost $110,000.

CALGARY, ALTA.—Bids are asked by F. J. Lawson, Arch., Builders' Exchange, Winnipeg, Man., until noon, June 8, for the erection of a general hospital for the City of Calgary. The estimated cost of the work is $120,000.

EDMONTON, ALTA.—Bids are asked by John Stocks, Deputy Minister of Public Works, until noon, June 13, for all necessary work for the erection of a court-house in this city.

PONOKA, ALTA.—Plans are being prepared at the Department of Public Works, Edmonton, Alta., for an insane asylum to be erected at Ponoka at a cost of $200,000. Hon. W. H. Cushing is Minister of Public Works, Edmonton.

VANCOUVER, B. C.—J. W. Weart, Managing Dir., Imperial Trust Co., has taken out a permit for a 13-story fireproof block, of steel frame construction, to be erected on the Arcade site at an estimated cost of $400,000.

Dalton & Everley, Archs., Davis Chamber, Vancouver, have prepared plans for the consumptive sanitarium to be erected at Tranquille at a cost of approximately $90,000. Bids for construction will be called for soon.

MEXICO CITY, MEX.—Manuel Bringas & Co. have approved plans for the construction of a building to cost approximately $600,000. The plans were drawn by Dorner & Bacmeister, and work on the new building will begin during the summer. The building, which will be four stories in height, will cover all the ground on the north side of Second Independencia from San Juan de Letran to Calle de Lopez. There will be entrances on Independencia and San Juan de Letran and Callejon de Lopez. The entire length is to be 92 meters, while the width will be approximately 15 meters. The lower stories of the new building will be occupied for mercantile purposes and the upper stories will be viviendas, the whole including about 500 rooms.

WATER SUPPLY—IRRIGATION.

(• denotes that this work is advertised in Engineering News.)

SPRINGFIELD, MASS.—The Board of Public Works on May 13 awarded the contract for the dam to be built on Hathaway Brook to DWYER BROS., of Dalton, Mass., at $6,302. Other bidders were: Beckwith & Pike, $6,745; Ley Construction Co., $6,780. The competition was restricted to local bidders.

NEW YORK, N. Y.—The Board of Aldermen on May 12 passed an ordinance appropriating $100,000 for an extension of the high-pressure water system in Central Park.

•SYRACUSE, N. Y.—Bids are asked until May 25 by the Board of Contract and Supply for furnishing a c.-i. pipe for a conduit line from Skaneateles Lake to and into the city of Syracuse.

CAPE MAY, N. J.—The City Council has passed an ordinance providing for the issue of $150,000 of bonds for the extension of the water and sewer systems.

HARRISBURG, PA.—Plans are being prepared by the George S. Baton Co., Keystone Bank Bldg., Pittsburg, Pa., for a mechanical filtration plant for the Harrisburg Water Co., including three pumps, three or four steel tanks lined with concrete, and reinforced concrete filter beds. Estimated cost, $100,000.

BALTIMORE, MD.—The Water Board approved specifications on May 7 for the construction of a high-service reservoir near Forest Park.

WASHINGTON, D. C.—Bids are asked until noon, June 6, by the Commissioners of the District of Columbia for furnishing c.-i. water pipe.

LANCASTER, S. C.—The city has voted $30,000 of bonds for the construction of water-works.

ATLANTA, GA.—On May 13 the Special Committee of the Water Board decided to recommend that the contract for constructing the foundations and house for the new water-works pump be awarded to the GRIFFIN CONSTRUCTION CO., at $29,330.

AUBURN, ALA.—We are officially advised that the Board of Trustees of the Alabama Polytechnic Institute, Auburn, at a meeting in Montgomery, Ala., on May 8, authorized the construction of a system of water-works for the institution. The source of supply is Binford's Spring, about two miles from the college, and there will be required about 200 ft. of 8-in. pipe, 22,000 ft. 6-in. pipe, 1,100 ft. 4-in. pipe, an electrically-driven centrifugal pump, a 75,000-gallon elevated tank and the necessary valves and fire hydrants.

JACKSON, MISS.—The City Council has voted to issue $196,000 of bonds to improve water-works, extend the sewer system and pave streets and sidewalks.

FORT ST. PHILIP, LA.—Bids are asked by Capt. Arthur Cranston, Q. M., U. S. A., until June 15, for constructing a water system at Fort. St. Philip.

NEWPORT, KY.—A resolution appropriating $32,000 for repairing the pumping station and for an emergency main connecting with Covington has been passed by the Council.

LORAIN, OHIO.—Plans have been completed by the Superintendent of the Water-Works Department for the extension of the intake pipe at the filter plant. Estimated cost, $60,000.

SPENCER, IND.—The Reliance Engineering Co., 18 East Fourth St., Cincinnati, Ohio, has been retained to prepare plans for the construction of a water-works system and electric light plant, the water-works to be a deep well system.

•MILAN, MICH.—The contract has been awarded to F. R. STONE, of Lima, Ohio, for the construction of a water-works system here.

IRON RIVER, MICH.—We are officially advised that the FRED. M. PRESCOTT STEAM PUMP CO., Milwaukee, Wis., has been awarded the contract for the construction of a 2,000,000-gallon triple-expansion and condensing pumping-engine. Bids were received on May 6 by the Board of Trustees.

WAUKEGAN, ILL.—Bids are asked until 8 p. m., May 22, by the Board of Local Improvements for laying c.-i. water pipe, with necessary fire hydrants, valves and valve boxes in Glen Flora Ave. and Lewis Ave. Fred W. Churchhill is Secy. Bd.

WEST ALLIS, WIS.—Frederick Schneider, City Engr., has prepared plans for extending the water mains in 73d Ave., from Elm St. to Summit Ave.; in 56th Ave., from National Ave. to Burnham St.; and in 51st Ave., from Burnham St. to Beloit road.

WINTERSET, IOWA.—Plans for the construction of a water system here have been prepared by the W. K. Palmer Co., of Kansas City, Mo.

DIKE, IOWA.—The contract to install complete water system here was awarded on May 6 to the TURNER ROLAND CO., of Des Moines, Iowa, at $6,082.

WABASSO, MINN.—The citizens have voted $7,000 of bonds for the construction af water system.

WHITE BEAR (White Bear Lake post-office), MINN.—The contract for constructing the water main extension, consisting of about 1½ miles of pipe, has been awarded by the town to PASTORET & LUNZ, of Duluth, Minn., at $8,684. Bids were opened on May 8.

GRAND FORKS, N. DAK.—Bids are asked by W. V. O'Connor, City Audr., until 3 p. m., June 1, for the construction of water mains in three streets.

HELENA, MONT.—On April 25 the citizens voted to issue $600,000 of bonds for the construction of water-works. Charles W. Helmick is City Engr.

GLENDIVE, MONT.—An extension of seven months has been granted to James Munn, of Deadwood, S. Dak., within which to complete his contract for the erection of structures in connection with the distribution system of the Lower Yellowstone irrigation project, Montana-North Dakota. The date for completion of contract under this extension is Dec. 1, 1908.

An extension of time has been granted to John A. Nelson, of Sidney, Mont., within which to complete his contract for the construction of laterals under the Lower Yellowstone irrigation project, Montana-North Dakota. The unfavorable weather conditions and scarcity of labor delayed the contractor and the date of completion has therefore been fixed at June 8, 1908, instead of May 1.

HAMILTON, MONT.—We are officially advised that the contract for the construction of an irrigation canal and earthen dam has been awarded by the Bitter Root Valley Irrigation Co., Hamilton, to the L. E. MYERS CO., Monadnock Bldg., Chicago, Ill.

ST. LOUIS, MO.—A. Boyce, Supply Comr., awarded the contract for sleeves and valves for water-pipe to the A. P. SMITH MFG. CO., at about $12,944.

EUREKA SPRINGS, ARK.—W. H. Schieber, Consulting Engr., Springfield, Mo., is preparing plans for the construction of a reinforced concrete dam. Estimated cost, $24,000.

HOUSTON, TEX.—One mile of 8-in. water pipe will be laid at once and the municipal water plant service will be extended over that much territory.

FREDERICKSBURG, TEX.—See under Manufacturing Plants.

•EDMOND, OKLA.—Bids are asked by the City Council until noon, June 15, for the purchase by the city of Edmond of material and machinery necessary in the construction of a complete system of water-works, and will include two 125-HP. tubular boilers, two duplex steam pumps, one straight line air compressor, one feed water heater, two boiler feed pumps, 25 fire hydrants, 15 water gate valves and about 250 tons of cast-iron pipe. O'Neill Engineering Co., Dallas, Tex., are Engrs.

GUTHRIE, OKLA.—The city has accepted the plans prepared by the W. K. Palmer Co., Consulting Engrs., O. E. Wheelock, Business Mgr., 717 Dwight Bldg., Kansas City, Mo., for the installation of a 2,000,000-gallon filtering plant.

FORT MORGAN, COLO.—According to the Denver "Republican" James W. McCreery, of Greeley, Colo., and E. B. Williams, of Fort Morgan, have perfected plans to water about 10,000 acres lying about 16 miles southwest of here. They have surveyed a reservoir site on the Williams ranch, which has a capacity of about 776,000,000 cu. ft., and this is to be filled by flood water from the San Arroya Creek. The creek channel will be used to convey the water to the irrigable land, which lies to the north of the reservoir. Work will be commenced on the project as soon as the district can be formed and arrangements made for disposition of the bonds.

HARRINGTON, WASH.—Plans are being prepared for the construction of a water-works plant here.

MOUNT VERNON, WASH.—John Meehan, of Mount Vernon, is preparing plans for the construction of water-works here. Estimated cost, $40,000. J. S. Bowen is City Clk.

SEATTLE, WASH.—R. H. Thomson, City Engr., has estimated the cost of the following street improvements: East 55th St., water mains, $5,275; Grand Boulevard, water mains, $24,000.

KLAMATH FALLS, ORE.—The Secretary of the Interior has decided to reject all bids for the construction of a dam and dike at Clear Lake in the Klamath project in Southern Oregon. New bids will be asked.

MINIDOKA, IDAHO.—See under Light & Power Plants.

CARSON CITY, NEV.—Bids are asked until noon, June 6, by the State Board of Capitol Commissioners for the construction of a concrete reservoir in Vearoy Canyon about six miles northwest of Carson City. About 50 cu. yds. of concrete is to be put in place, consisting of four walls and a floor, size of the reservoir to be about 24 × 30 ft. Separate bids will also be received for furnishing 5,000 ft. of 8-in. converse or Mathenson lock joint pipe, f. o. b., Carson City, Nev.

MARYSVALE, UTAH.—Bids are asked until 2 p. m., June 2, by the State Board of Land Commissioners, Salt Lake City, Utah, for the excavation for approach cutrock, 20 cu. yds., excavation for approach cut loose rock, 1,685 cu. yds., excavation for approach cut earth, 190 cu. yds., excavation for tunnel 420 lin. ft., excavation for outlet cut rock, 155 cu. yds., excavation for outlet cut loose rock, 790 cu. yds., excavation for outlet cut earth, 1,010 cu. yds; rip-rap for outlet cut 150 cu. yds., for the State Land Board reservoir and irrigation project. The open cut is partly in earth and partly in solid rock; the tunnel entirely in solid rock. This work is located in Sec. 3, Township 28 South, Range 3 West, Salt Lake Meridian, approximately ten miles south of Marysvale. Thomas C. Callister is Secy. Bd.

OTTAWA, ONT.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., until 4.30 p. m., July 8, for the construction of a movable dam.

TABER, ALTA.—The Town Council has decided to at once install a water-works system.

PRINCE ALBERT, SASK.—The City Council has awarded the contract for the excavation for the water-works system to McVEAN & CRAIG, of this city at $31,761.

VICTORIA, B. C.—Bids are asked until May 26 by the city for supplying certain gate valves for the Victoria Water-Works. W. W. Northcutt is Purchasing Agt.

SEWERAGE.

(• denotes that this work is advertised in Engineering News.)

LAWRENCE, MASS.—The Committee on Pub. Improv. of the City Council recommended improvements on May 4 as follows: Osgood St. sewer, $30,000; First Ward, sewer, $15,000; Fairmont Heights sewer, $20,000; Common St. paving, $45,000.

WOONSOCKET, R. I.—The following bids have been received for constructing 2,700 ft. of sewer 9 ft. deep, including manholes, the city furnishing the pipe: Cinedella & Co., $1.55 per lin. ft.; Cumberland Construction Co., $1.24; Globe Coal Co., $1.35; C. F. Parker, $1.34; C. Crankshaw, $1.50; O'Shea & Bailey, $1.38½; Ryan-Numack Co., $1.20; $5 per cu. yd. for rock excavation and $35 per M for sheathing left in place. Frank M. Mills is City Engr.

SHELTON, CONN.—F. B. & W. H. O'NEIL, of Hartford, Conn., have been awarded the contract by the Board of Wardens and Burgesses for the construction of pipe sewers at $11,908. D. E. Brinsmore is Boro. Engr.

WATERLOO, N. Y.—Plans and specifications for the construction of a sewer system have been completed and bids will be asked at once. John Kropf is Village Pres.

•MT. KISCO, N. Y.—The following bids were received on May 11 by the Board of Trustees for constructing about 13 miles of sewers: F. H. Cowin Co., Boston, Mass., $77,071; S. Amanna, New York City, $64,-

969; A. M. Cusack, Boston, Mass., $67,136; Pierson Eng. & Con. Co., Bristol, Conn., $69,380; Briggs & McLaughlin, New York, $71,953; Richard S. Stack, White Plains, N. Y., $76,446; Frank Nordone, Mt. Vernon, N. Y., $77,683; C. F. Brown & Son, White Plains, N. Y., $79,266; Chas. Sillery & Son, Mt. Vernon, N. Y., $79,569; James Garofano, Mt. Vernon, N. Y., $80,702; F. G. Fowler, Mt. Kisco, N. Y., $81,685; Haggerty Con. Co., New York, $84,344; Coughlin & Shields Co., Boston, Mass., $89,373; Golden & Lansing, Schenectady, N. Y., $112,918. Fred. J. Carpenter is Clk. Bd.

NEW YORK, N. Y.—Bids are asked until 2 p. m., May 25, by John F. Ahearn, Pres. Manhattan Boro., for reconstructing the outlet sewer and appurtenances under Pier 13, East River, and in South St., between Maiden Lane and Burling Slip; in 28th St. and 29th St., between the East River and First Ave.; and in First Ave., between 28th and 29th Sts.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 28, by Louis F. Haffen, Pres. Boro. of The Bronx, for reconstructing sewers and constructing receiving basins in various streets.

NEW YORK, N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. of Queens, until 11 a. m., June 1, for reconstructing a sewer and appurtenances in 14th Ave., from 27th St. to 30th St., Whitestone, Third Ward, Boro. of Queens.

ELIZABETH, N. J.—Bids are asked until June 1 by the city for the construction of an intercepting sewer.

NEWARK, N. J.—The following bids were opened on April 16 by the Board of Street and Water Commissioners for the construction of the Meadow Brook sewer system: (a) Harrison Construction Co., of Newark, N. J.; (b) F. M. STILMAN CO., of Jersey City, N. J.; (c) James A. Christie, of Newark, N. J.; (d) A. E. Sanford Co., of Newark, N. J.; (e) William J. McCloud & Co., of Elizabeth, N. J.: (a) $140,534; (b) $98,152; (c) $144,106; (d) $127,882; (e) $131,929.

*PHILADELPHIA, PA.—Bids are asked until June 3 by the Department of Public Works, Bureau of Surveys, for the construction of main sewers under Schedule B. Geo. R. Stearns is Dir. Pub. Wks.

NORTH BRADDOCK, PA.—Bids are asked by C. A. Stewart, Boro. Engr., until 3 p. m., May 28, for the construction of a sewer in Bell Ave., about 325 ft. of 18-in. pipe, 350 ft. of 12-in. pipe, inlets, manholes, etc.

SUMMITHILL, PA.—Bids are asked by the Town Council until 7.30 p. m., May 22, for the construction of a complete sewer. Edward Evans is Secy. Council.

HUNTINGDON, PA.—The T. M. OAKS CO., of this city, has been awarded the contract for the construction of main sewers in Moore and Mifflin Sts. at $23,889.

BEAVER, PA.—The LUCIUS CO., of Beaver Falls, Pa., has been awarded the contract for sewering this town, at $29,000. The firm was the lowest of 22 bidders, the next being Rochford & Cumisky, of Youngstown, Ohio.

*BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., June 10, for the construction of a high-service reservoir and diversion sewer in connection therewith. J. Barry Mahool is Pres. Bd.

BALTIMORE, MD.—Plans and specifications are on file at the office of Engineering News, New York, for the construction of storm water drains. Bids are asked until May 27.

BALTIMORE, MD.—E. J. O'CONNELL, 158 Adams St., Boston, Mass., has been awarded the contract for the construction of Sections Nos. 1 and 2 of the east low-level intercepting sewer at $187,502. Noted last week.

WASHINGTON, D. C.—The Commissioners of the District of Columbia, Washington, D. C., have awarded the contract for the construction of three sewers in the District to E. G. GUMMEL, 300 Rhode Island Ave. N. W., Washington, at the following unit prices: Ordinary excavation, 70 cts.; sewer brick masonry, $14; 12-in. pipe, 70 cts.

WASHINGTON, D. C.—Bids were received as follows on May 18, at the office of the Commissioners of the District of Columbia, Washington, D. C., for the construction of a sewer on Arizona Ave., near its intersection with Massachusetts Ave.: (a) E. G. Gummel, 300 Rhode Island Ave., Washington, (b) Warren F. Brenizer Co., Second and O Sts., S. E., Washington. Ordinary excavation, (a) 50 cts.; (b) 50 cts.; sewer brick masonry, (a) $18, (b) $14; vitrified brick masonry, (a) $23, (b) $21; concrete masonry "B," (a) $9.64, (b) $8.75; concrete masonry, "C," (a) $9.45, (b) $8.25.

Bids were received as follows on May 14 for annual supplies: Sewer brick, Frederick Brick Works, Frederick, Md., $8.50 per M; James M. Porter, Pittsburg, Pa., $7.55; C. P. Mayer Brick Co., Briggsville, Pa., $16.75; New Washington Brick Co., Washington, $9.73; Mack Mfg. Co., Philadelphia, Pa., $18.09. Terra-cotta sewer pipe, lowest bidder, American Sewer Pipe Co., Pittsburg, Pa.

JOHNSON CITY, TENN.—Bids are asked until May 28 by E. E. Ellsworth, City Recdr., for the construction of a trunk sewer. L. N. Wilson is City Engr.

CONNEAUT, OHIO.—See under Streets and Roads.

LANCASTER, OHIO.—The Board of Public Service has awarded the contract for constructing the Maple St. storm water sewer in Sewer District No. 3, to E. H. AMES, of Columbus, Ohio, at $36,718.

CANTON, OHIO.—JOHN SKEELES was awarded the contract on May 9 by the Board of Public Works for constructing a sanitary sewer in West Tuscarawas St., from Harrison Ave. to the corporation line, at $3,393.

SULLIVAN, IND.—Bids are asked until 1 p. m., June 6, by R. L. Bailey, County Surv., for the construction of five concrete sewers.

AURORA, IND.—SCOTT & WALKER, of Aurora, have been awarded the contract at $12,483 for constructing a sewer system in District No. 1.

RICHMOND, IND.—No bids have been received by the Board of Public Service for the 70-ft. extension of the sewer emptying into the river off South Fifth St.

NORMAL CITY (Muncie post-office), IND.—WILLIAM BIRCH, of Muncie, was awarded the contract by the Town Board on May 12 for the construction of a 3,000-ft. sewer at $11,761.

IRON RIVER, MICH.—Plans and specifications are being prepared by W. B. Patton, of the Duluth Engineering Co., Duluth, Minn., for the construction of a sewerage system at $35,000.

SALINA, KAN.—C. T. SNYDER has been awarded the contract at $3,309 for constructing 1,660 ft. of sewer in Walnut St., including five manholes, four catch basins and eight smaller catch basins.

ATCHISON, KAN.—Bids are asked until June 4 by the State Board of Control for constructing a septic tank, filter and contact beds for the sewage disposal plant at the Soldiers' Orphans' Home, Atchison. E. B. Schermerhorn is Chn. Bd.

REDFIELD, S. DAK.—The city will expend $18,000 for improving the sewer system.

WICHITA FALLS, TEX.—We are officially advised that DEER & EARLEY have been awarded the contract by the city for the construction of the sewer system at $28,800. John W. Maxcy, Houston, Tex., is Engr.

SPOKANE, WASH.—The contract has been awarded to FOSTER & CARDIN for the construction of a trunk sewer in Sumner Ave., at $17,915.

OAKLAND, CAL.—No bids were opened on May 6 by the Board of Public Works for the construction of the Oak St. sewer. New bids will be asked. F. C. Turner is City Engr.

PANAMA.—Sewer pipe.—See under U. S. Possessions and Cuba.

GARBAGE DISPOSAL.

HARTFORD, CONN.—An appropriation of $2,500 has been made by the city for street sprinkling.

*SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., May 25, by the Board of Contract and Supply, Fred T. Pierson, Secy., for the disposal of the garbage of the city.

CORAOPOLIS, PA.—JAMES D. HARPER, of this city, has been awarded the contract for the removal of gbaarge for a period of one year.

CINCINNATI, OHIO.—Only one bid was received on May 7 by the City Council for the collection, removal and disposal of garbage, dead animals and animal offal for periods of one year and also five years from June 1, 1908, as follows: Cincinnati Reduction Co., $93,000 for one year; for five years the following amounts: First year, $89,000; second year, $91,000; third year, $93,000; fourth year, $95,000; fifth year, $97,000.

INDIANAPOLIS, IND.—Bids were received on May 13 by the Board of Public Works for furnishing a 5-ton asphalt steam roller as follows: Iroquois Iron Works, of Buffalo, N. Y., $1,525; the Pioneer Iron Works, of Chicago, Ill., $1,737; the Kelly-Springfield Road Roller Co., of Springfield, Ohio, $1,600; the Albert F. Zearing Contractors' Supply Co., of Indianapolis, bid to sell an "Erie" roller for $1,750, or a "Pioneer" for $1,850, and Charles Longenecker & Co., of New York, $1,850.

STREETS AND ROADS.

(* *denotes that this work is advertised in Engineering News.*)

EVERETT, MASS.—An ordinance appropriating $60,000 for macadamizing and paving several streets has been passed by the City Council.

LAWRENCE, MASS.—See under Sewerage.

NORFOLK, CONN.—Bids for the construction of 4,423 lin. ft. of telford road are asked by the Selectmen until 2 p. m., May 22. The specifications call for four 24-in. and three 20-in. tile culverts. M. F. Mulville is 1st Selectman.

HARTFORD, CONN.—The Court of Common Council on May 11 adopted resolutions authorizing the establishing of new lines of curb, sidewalk and gutter on Asylum Ave., between Woodland St. and Prospect Ave.; on both sides of Tremont St., between Farmington Ave. and Cone St.; and a new curb line on the corners of Farmington Ave. and Gillette St., and Garden and Collins Sts. The macadamizing of Tremont St. was also ordered.

PLYMOUTH, CONN.—Bids for the construction of 2,020 ft. of macadam road on Main St. are asked by the Board of Selectmen until 4 p. m., May 26. H. E. Hinman Terryville, Conn., is 1st Selectman.

HARTFORD, CONN.—The Board of Contract & Supply on May 18 opened the following bids for resetting curb on Asylum and intersecting streets, the figures given being per lin. ft.: Billing Sidewalk & Coal Co., Hartford, $2.65 and $2.90 for Glastonbury and Monson granite respectively; R. Silvestro & Co., $2.73 and $2.84; Alexander Watson, $2.84 and $3; A. S. Freeborg, as per sample of stone submitted, $2.80.

*MT. KISCO, N. Y.—Bids are asked by the Town Board until 3.30 p. m., June 8, for macadamizing, grading and otherwise improving the highway leading easterly from Cross River bridge to the Lewisboro town line, about 3.3 miles. Joseph E. Merriam is Town Clk.

BROOKLYN, N. Y.—THE BROOKLYN ALCATRAZ ASPHALT CO., 407 Hamilton Ave., Brooklyn, has been awarded the contract for regulating and repaving with asphalt on a concrete foundation, Fulton St., from Joralemon St. to Hanover Place, at $31,450. Other bidders were Cranford Co., $36,034; Barber Asphalt Paving Co., 114 Liberty St., $33,674; Uvalde Asphalt Paving Co., $38,071.

NEW YORK, N. Y.—THE UVALDE ASPHALT PAVING CO., 1 Broadway, was awarded the contract by the Park Commissioners for repairing asphalt roadway pavements where directed, at $11,370; the work requiring 7,500 cu. yds. asphalt pavement and 20 cu. yds. Portland cement concrete. Other bidders were: Asphalt Construction Co., Madison Ave. and 137th St., $21,055; Barber Asphalt Paving Co., 114 Liberty St., $15,835; Sicilian Asphalt Paving Co., 4 Park Row, $14,250.

Bids were opened on May 11 by John F. Ahearn, Pres. Manhattan Boro., for repairing and maintaining sheet asphalt pavement in three sections of Manhattan Boro., as follows: Southern Section: (a) 45,000 sq. yds. asphalt pavement, including binder course; (b) 400 cu. yds. Portland cement concrete; (c) totals: Uvalde Asphalt Paving Co., 1 Broadway (a) $1.48, (b) $6.78, (c) $69,312; Sicilian Asphalt Paving Co., 41 Park Row, (a) $1.55, (b) $6.50, (c) $72,350; Barber Asphalt Paving Co., 114 Liberty St., (a) $1.56, (b) $7.53, (c) $73,212. Central Section: (a) 45,000 sq. yds. asphalt pavement, including binder course; (b) 400 cu. yds. Portland cement concrete; (c) totals: Uvalde Asphalt Paving Co., (a) $1.48, (b) $6.78, (c) $69,312; Sicilian Asphalt Paving Co., (a) $1.52, (b) $6.50, (c) $71,000; Barber Asphalt Paving Co., (a) $1.56, (b) $7.53, (c) $73,212. Northern Section: (a) 60,000 sq. yds. asphalt pavement, including binder course; (b) 400 cu. yds. Portland cement concrete; (c) totals: Uvalde Asphalt Paving Co., (a) $1.48, (b) $6.78, (c) $91,512; Sicilian Asphalt Paving Co., (a) $1.55, (b) $6.50; (c) $95,600; Barber Asphalt Paving Co., (a) $1.56, (b) $7.53, (c) $96,612; Asphalt Construction Co., Madison Ave. and 137th St., (a) $2.05, (b) $7.50, (c) $126,000.

Bids were opened on May 7 at the office of the Department of Parks for furnishing and delivering as required on Riverside Drive, between 72d and 122d Sts., 105,000 asphalt blocks in all. The contract was awarded to the HARLEM CONSTRUCTION CO., 2 Rector St., at $7,833. The Barber Asphalt Paving Co., 30 Church St., submitted a bid of $7,980.

NEW YORK, N. Y.—Bids are asked until 3 p. m., May 28, by the Park Board for furnishing all the labor and materials necessary to repair asphalt roadways of Glenmore Ave. and Eastern Parkway extension, also walk in Prospect Park, Borough of Brooklyn, together with all the work incidental thereto; for furnishing and delivering 3,000 cu. yds. of broken stone of trap rock and 3,000 cu. yds. of screenings of trap rock (No. 2, 1908) for parks, Borough of the Bronx; for raising the grade of the loop in Riverside Drive at 127th St. and other work incidental thereto. Henry Smith is Pres. Bd.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 28, by Louis F. Haffen, Pres. Boro. of The Bronx, for paving with creosote resinate wood blocks and wood blocks on a concrete foundation several streets.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 3, by the Commissioners of the Common Lands Fund of the late town of Gravesend at the office of the Mayor, No. 5, City Hall, for regulating and grading to an elevation above mean high water the roadway on Shell Road, between Ave. X and Canal Ave.

NEW YORK, N. Y.—Bids are asked until 11 a. m., June 3, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading and paving with asphalt pavement on a concrete foundation and constructing cement sidewalks on various streets.

FORT NIAGARA (Youngstown postoffice), N. Y.—Bids are asked until 10 a. m., June 6, by the Constructing Quarter Master for constructing concrete walks at Fort Niagara.

MONROE, N. Y.—THE JOSEPH SHARPE CONSTRUCTION CO., of Paterson, N. J., has been awarded the contract for the construction of sidewalks, driveways, curbs and gutters at the following prices: Sidewalks, 19 cts. per sq. ft.; driveways, 22 cts.; curbs, 50 cts. per lin. ft.; cobblestone gutters, 9 cts. per sq. ft. Fred. J. Knight is Engr.

BUFFALO, N. Y.—Resolutions have been adopted by the Common Council for the improvement of the following streets: Purdy St., 24 ft. wide, by paving from the north curb line of Laurel St. to the south line of Utica St.; Gibson St., 28 ft. wide, by paving from north curb line of Broadway to the south line of Stanislaus St. with the German Rock Company's standard asphalt, on concrete base (Specifications "B"), estimated cost, $15,064; Grey St., 22 ft. wide, by repaving from north curb line of Broadway to south line of Genesee St. with German Rock Company's standard (Specifications "A"), asphalt, except the crossing of Sycamore St.; estimated cost, $9,414; Cedar St., 28 ft. wide, by repaving with Trinidad asphalt (Specifications "A") from north curb line of Swan St. to south curb line of William St., except the crossings of North Division and Eagle Sts. and inside; street car tracks and two feet outside; estimated cost, $9,346; Hoffman Alley, 7 and 19 ft. wide, by paving from the southerly curb line of Hamilton St. to the south end of the alley.

*CAMDEN, N. J.—Bids are asked until 11 a. m., June 8, at the court-house, Camden, for macadamizing 4.83 miles of road. J. J. Albertson is County Engr.

*RIVER VALE (Westwood post-office), N. J.—The following bids were received on May 7 by the town for macadamizing River Vale, Cedar, Demarest and Piermont Aves.: John McNabb, Bound Brook, N. J., $38,809; E. C. Humphrey & Co., Hackensack, N. J., $38,517; JOHN C. TIERNEY, Hoboken, N. J., $31,141 (awarded contract). John W. B. Duncan is Township Clk.

IRVINGTON, N. J.—Bids are asked until June 2 by M. Stockman, Town Clk., for furnishing and delivering f. o. b. cars Lehigh Valley R. R. station, about 1,000 tons of crushed mountain stone.

HACKENSACK, N. J.—Bids are asked by the Joint Committee of Bergen and Hudson Counties at the office of the Clerk of the Board of Chosen Freeholders of Bergen County, Hackensack, until Jun[illegible] for macadamizing and improving the [illegible]ville turnpike in the above counties.

READING, PA.—Bids ar[illegible]ked until 3 p. m., May 21, by Caleb We[illegible] City Clk., for furnishing limestone spal[illegible] screenings; trap rock spalls and scre[illegible]; furnishing and delivering sharp paving [illegible]; furnishing and delivering North River [illegible]stone and reinforced concrete curbing; [illegible]ng new and relaying old brick gutters [illegible]crossings; setting new and resetting old [illegible]ng; cleaning storm water sewer inlets [illegible]atch basins; laying new and relaying o[illegible]walks; furnishing American Portland [illegible]t; furnishing and delivering 30,000 g[illegible]locks; furnishing and delivering vitri[illegible]ving blocks for gutters, crossings and [illegible] paving and vitrified brick for sewer [illegible]ction; furnishing and delivering rei[illegible]d concrete block manholes and well hol[illegible].

SHAMOKIN, PA.—Bids [illegible]sked until May 25 by the Borough for [illegible] and paving Walnut St., from the we[illegible] of Market St. to the east side of Second [illegible]ohn Drumheiser is Ch. Burgess.

EVANSBURG, PA.—Bids a[illegible]ed by the Borough Council until 7.30 [illegible] May 22, for grading, curbing and pa[illegible] Pittsburgh St., from Primrose alley t[illegible]eak Neck Creek, and Harmony St., from [illegible] Baltimore & Ohio railroad to Pattison St[illegible]pproximate quantities on the two streets [illegible] follows: Grading, 4,500 cu. yds.; curb[illegible] 4,900 lin. ft.; pacing, 8,740 sq. yds.

MANOR, PA.—P. F. McCAN[illegible] of Greensburg, Pa., has been awarded th[illegible]ontract by the township for the improvem[illegible] of Garrets Run road at $43,549.

SOMERFIELD, PA.—JAMES C. McSPADDEN, of Rockwood, Pa., has been awarded the contract for the reconstruction of a section of the National pike begin[illegible] at Somerfield Borough.

BALTIMORE, MD.—Bids are asked until noon, May 23, by W. W. Crosby, Ch. Engr. Maryland Geological Survey, for grading and macadamizing about three miles of road.

WASHINGTON, D. C.—Bids were received as follows on May 15, at the office of the Commissioners of the District of Columbia for annual supplies: Paving Blocks: American Sewer Pipe Co., Pittsburg, Pa., $25.25 per M. Mack Mfg. Co., Philadelphia, Pa., $24.35; Metropolitan Paving Block Co., Pittsburg, $30; C. P. Mayer Block Co., Briggsville, Pa., $22.20; James M. Porter, Pittsburg, Pa., $25 and $20.80. Asphalt paving blocks: Washington Asphalt Paving Block & Tile Co., Washington, D. C., $62 M. Granite curbing: Georgia Granite Co., Atlanta, Ga., (1) 83 cts., (2) $1.02, (3) $1.04, (4) $1.35; Feeney & Atherton, Woodstock, Md., (1) 87 cts., (2) $1.09; Wise Granite Co., (1) 88 cts., (2) $1.08, (3) $1.04, (4) $1.29; W. B. Evans, Lithonia, Ga. (1) 80 cts., (2) $1.25, (3) 85 cts., (4) $1.35; Davidson Granite Co., Lithonia, Ga., (1) 81 cts., (2) $1.35, (3) $1, (4) $1.35; Gragdon, Fernald & Gordon, Bath, Me., (1) 85 cts., (2) $1.15, (3) $1.15, (4) $1.75.

CLARKSVILLE, VA.—Bids are asked until May 25 by the city for about 2,000 yds. of granolithic pavement. Samuel Davis is St. Comr.

SOUTH BOSTON, VA.—The citizens have voted $80,000 of bonds for the improvement of streets and sidewalks.

GOLDSBORO, N. C.—The city has decided to have Walnut St. paved at an estimated cost of $10,000.

*FORT BARRANCAS, FLA.—Bids are asked until 11 a. m., July 1, by Capt. D. W. Hand, Constructing Q. M., U. S. A., for the construction of new and resurfacing of old roads here.

HUNTSVILLE, ALA.—THE GRAVES-MATHEWS PAVING CO., 1710 Ave. A, Birmingham, Ala., was awarded the contract on May 6 by the City Council for paving Washington and Jefferson Sts. at $43,420.

*VICKSBURG, MISS.—Bids are asked until June 1 by the Mayor and Aldermen for paving with vitrified brick, bitulithic and asphalt.

LOUISVILLE, KY.—LEE FIGG was awarded the contract on May 7 by the Board of Public Works for paving 18th St., from Dumesnil St. to Magnolia St., with granite block at $2.46 per sq. yd. J. P. Claybrook is Ch. Engr. Pub. Wks.

DAYTON, OHIO.—The following bids were received on May 11 by the Board of Public Service for furnishing ten carloads of asphalt or less to the city for the repair of streets: Barber Asphalt Paving Co., 114 Liberty St., New York, $30.40 per ton; F. Otto Kemlein, on three different grades, at $29.45, $31.45 and $29.45, respectively; Trinidad Asphalt & Rubber Co., $27.15 per ton; California Asphaltum Sales Agency, $28 per ton.

TORONTO, OHIO.—E. A. FRESHWATER & SONS were awarded the contract on May 7 by the Toronto Realty Co. for grading a roadway and constructing piers and abutments for a bridge at about $11,000.

CINCINNATI, OHIO.—Bids are asked until noon, May 21, by the Board of Public Service for the improvement of various streets. John J. Wenner is Clk. Bd.

CINCINNATI, OHIO.—WM. T. FLYNN, 1252 Chase Ave., has been awarded the contract by the Board of Public Service for paving Mad Anthony St. with brick from Spring Grove Ave. to Knowlton St., at $3,937.

The following bids were received on May 15 for paving Burnett Ave., from Shilito Ave. to Forrest Ave., with wood block: The United States Wood Preserving Co., 1007 Mercantile Library Bldg., $71,287; Russel & Jennison, 1015 First National Bank Bldg., $71,326.

The following contracts for street improvements have been awarded: Berlin St., brick paving, KIRCHNER CONSTRUCTION CO., Eighth and Plum Sts., $12,686; Chestnut St., asphalt paving, the BARBER ASPHALT PAVING CO., 1603 First National Bank Bldg., $6,164; Lyon St., brick paving, MORAN & SPRINGMEIER, 2415 Sycamore St., $3,761.

CINCINNATI, OHIO.—The following are the bids received by the Board of Public Service on May 7 for improving the following streets: Glendora Ave., from St. Clair St. to a point 593 ft. north, by grading, setting sandstone curb and paving the roadway with brick: A. J. Henkel, 703 Mercantile Library Bldg., $7,331; Allen Kissinger, 1658 Baymiller St., $10,1[illegible]. Bryant Ave., from Middleton Ave. to Whitfield Ave., by grading, setting limestone curb, paving gutters with brick, macadamizing the roadway, etc.: John D. Washburn, 309 Johnston Bldg., $3,177; August J. Henkel, $3,360. Harrison Ave., from Queen City Ave. to lot 27, by grading, setting granite curb, paving the roadway with granite, etc.: August J. Henkel, $37,930; Kirchner Const. Co., 8th and Plum Sts., $38,602; Louis Drach Construction Co., 10 Temple Bar Bldg., $39,245; John Ruebel & Bro., 56 Atlas Bank Bldg., $39,251; Edward Ryan, Springfield, Ohio, $40,071; E. G. Nave Bros. Co., Builders' & Traders' Exchange, $38,832; M. Sullivan & Son, 703 Mercantile Library Bldg., $42,277. [illegible]ury Ave., from Forest Ave. to Northern Ave., by grading, setting sandstone curb, paving the gutters with brick, macadamizing the roadway, etc.: August J. Henkel, 703 Mercantile Library Bldg., $32,716; Kirchner Construction Co., $35,580; Louis Drach Construction Co., $35,857; John Ruebel & Bro., $37,363; M. Sullivan & Sons, $37,681. Harrison Ave., from Fairmount Ave. to west line of Section 32, by grading, settting granite curb, paving the roadway with granite, etc.: August J. Henkel, $94,979; E. G. Nave Bros. Co., Builders' & Traders' Exchange, $97,654; Quill & Poos, 1215 Windsor St., $108,895; John Ruebel & Bro., $105,461; M. Sullivan & Son, $110,110; Kirchner Construction Co., $101,428.

CINCINNATI, OHIO.—The following bids were received by the Board of Public Service on May 8 for improving the following streets: Probasco Ave., from Marshall Ave. to Clifton Ave., by grading, setting limestone curb, paving the gutters with brick, macadamizing the roadway, etc.: The Kirchner Construction Co., $13,910; the Louis Drach Construction Co., $14,078; John Funke, 2466 McMicken Ave., $15,028; A. J. Henkel & Bro., $16,010; John Goodman, 2133 Florence Ave., $15,430; John Ruebel & Bro., $15,725. Juergens Ave., from Greendale Ave. to Lauks west line, by grading, setting sandstone curb, paving the gutters with brick, macadamizing the roadway, etc.: John Ruebel & Bro., $5,119; the Kirchner Construction Co., $5,320; the Louis Drach Construction Co., $5,215; August J. Henkel & Bro., $5,420. Grace Ave., from Linwood Ave. to Observatory, by grading, setting artificial cement curb and gutter, macadamizing and paving the roadway with rock asphalt: Minor Carr, 648 Carlisle Ave., $16,168; the Kirchner Construction Co., $16,349; M. Sullivan & Son, $16,450; the Louis Drach Construction Co., $16,399. Ehrman Ave., from Norwich Ave. to Carthage Pike, by grading, setting sandstone curb, macadamizing the roadway etc.: John Ruebel & Bro., $11,106; the Louis Drach Construction Co., $11,304; the Kirchner Construction Co., $11,247.

The following bids were received on May 12 for improving Fifth Ave., from Eighth St. to Glenway Ave.: John Ruebel & Bro., $25,832; the Louis Drach Construction Co., $25,865; George P. Walker, 21 Carlisle Bldg., $26,954; the Kirchner Construction Co., $27,211; John M. Bolan, 1466 State Ave., $25,897.

CONNEAUT, OHIO.—Bids are asked until noon, May 27, by the city for paving four streets and sewering three streets.

PAULDING, OHIO.—Bids are asked until 2 p. m., May 29, by the County Auditor for grading, draining, culverting and macadamizing various pike roads. C. L. Straw is Engr.

ALLIANCE, OHIO.—Bids are asked until noon, May 22, by the Board of Public Service for grading, paving, etc., several streets. C. E. Swearingen is Clk. Bd.

YOUNGSTOWN, OHIO.—The City Council has decided to have Garlick St. improved from Mt. Pleasant to Lydia Sts. by grading and draining, and also to have Wick Ave. straightened.

TIPTON, IND.—IRA F. CRAIL, Tipton, has been awarded the contract by the County at $5,875 for constructing a gravel road in Cicero Township. J. F. Barlow is County Audr.

GREENCASTLE, IND.—D. C. BRACKNEY and F. M. GLIDWELL & SON, Greencastle, have been awarded the contract by the County at $51,723 for constructing 65,074 ft. of stone roadway. D. V. Moffitt is County Audr.

PORTLAND, IND.—Bids are asked until June 9 by the County Auditor for the construction of eight gravel roads and six stone roads.

FORT BENJAMIN HARRISON (Lawrence post-office), IND.—Bids are asked until June 1 by Capt. George H. Penrose, Q. M., U. S. A., for the construction of a macadam road.

NEW CASTLE, IND.—Bids are asked by the Commissioners of Henry County until June 1 for the construction of a gravel road on the line between Franklin and Henry Townships. W. L. Risk is County Audr.

HARTFORD CITY, IND.—Bids are asked by the Commissioners of Blackford County until noon, June 1, for the construction of 11,475 ft. of gravel road in Licking Township. L. W. Daugherty is County Audr.

KOKOMO, IND.—Bids are asked by the Commissioners of Howard County until 2 p. m., June 1, for the construction of a gravel road in Harrison Township, known as the Godfrey road. William L. Benson is County Audr.

CRAWFORDSVILLE, IND.—Bids are asked by the Commissioners of Montgomery County until noon, June 6, for the construction of a gravel road in Brown Township, known as Jarvis road. B. B. Engle is County Audr.

INDIANAPOLIS, IND.—The following bids were received on May 13 by the Board of Public Works for supplying asphalt for the city asphalt patching plant, about 400 or 500 tons: (a) Trinidad asphalt, (b) California asphalt: H. H. Symmes Co., Indianapolis, (a) $28.95 per ton, (b) $20.97; Barber Asphalt Paving Co. 114 Liberty St., New York, (a) $29; Hoosier Construction Co., Indianapolis, (b) $27 (Acme brand); California Asphaltum Sales Agency, Chicago, Ill., (b) $23 (Maltha brand); Warren Chemical & Mfg. Co., New York, (a) $28. Blaine H. Miller is City Engr.

MUNCIE, IND.—Bids are asked by the Commissioners of Delaware County until 10 a. m., June 3, for the construction of a gravel road in Center Township. Joseph E. Davis is County Audr.

DETROIT, MICH.—Bids are asked until May 28 by the Board of County Commissioners for constructing a macadam road on Gratiot road. Edward N. Hines is Chn. Bd.

PONTIAC, MICH.—William J. Fisher, City Engr., is preparing plans for the construction of 4,000 ft. of brick paving on Oakland Ave. and Water St., on a 6-in. concrete base, with 1,000 ft. of curbing, manholes, etc. Estimated cost, $10,000. Bids will probably soon be asked.

CARBONVILE, ILL.—E. A. Cox, City Engr., has prepared plans for brick paving on concrete foundations, and laying granitoid gutters on several streets.

MASON CITY, IL.—Estimates for paving various streets with brick on a concrete foundation have been prepared by A. N. Johnson, State Engr.

GLENCOE, ILL.—Bids are asked by the Board of Village Improvements until May 26 for grading, draining, paving and improving a part of Longwood Ave. There will be about 1,400 cu. yds. of excavation, 1,595 sq. yds. of 3-course macadam paving, 9½ ins. thick; 1,500 ft. of 4-in. and 300 ft. of 6-in. drain, two catch basins and 400 sq. yds. of rock. F. A. Windes, Winnetka, Ill., is Engr.

JANESVILLE, WIS.—Bids are asked until June 11 by the Street Assessment Commission for paving a portion of St. Lawrence Ave., about 2,090 sq. yds., with granite macadam. C. V. Kerch is City Engr.

ALBERT LEA, MINN.—Bids are asked until 7.30 p. m., May 25, by C. J. Dudley, City Clk., for constructing 1,794 lin. ft. of cement curb and 180 lin. ft. of 10-in. pipe sewer.

ST. PAUL, MINN.—The County Surveyor has been instructed to prepare plans and specifications for the construction of a clay and gravel roadway 20 ft. wide on Hamlin Ave., from the city limits to Harrison road, and for the repair of several roads. Edward G. Krahmer is County Audr.

FORT SCOTT, KAN.—Bids are asked until 1 p. m., May 26, by the Good Roads Comn. of Fort Scott and Scott Township for the construction of ½ mile of macadam road in Scott Township on the Humboldt road. W. R. Moore is Clk. Comn.

FORT OMAHA (Omaha post-office), NEB.—GEORGE J. S. COLLINS has been awarded the contract for the construction of terraces, macadam roads, etc., at Fort Omaha at $11,341.

YANKTON, S. DAK.—Bids are asked until 8 p. m., June 1, by the city for the construction of a cement sidewalk on the west side of Broadway from Main St. or Eighth St. to Tenth St.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of the following street improvements: 18th Ave. and other streets, grading and curbing, $18,915; Aurora Ave. and other streets, concrete sidewalks, $31,300; Westview Drive and other streets, concrete sidewalks, $14,900; East Madison St., planking, $8,400; Fourth Ave., vitrified brick paving, $57,000; 14th Ave. West, and other streets, grading etc., $8,100; Eighth Ave. and other streets, vitrified brick paving, $61,800; West 61st St. and other streets, sewers, $20,673; Lakeview Ave., concrete sidewalks, $4,300; Broad St. and other streets, concrete sidewalks, $4,390; Grand Boulevard and other streets, water mains, $24,000.

HANS PEDERSON, Washington Block, Seattle, has been awarded the contract by the Board of Public Service for grading, laying mains and constructing concrete walks on Thorndyke Ave., at $130,719. Other bidders were: Holt & Jeffery, Hinckley Block, Seattle, $147,281; S. Normile, $141,583.

GANANOQUE, ONT.—F. DOLAN has been awarded the contract by the city for constructing concrete sidewalks and curbs at 13¾ cts. per sq. ft. for walks; 13¾ cts. for crossings; and 16 cts. per lin. ft. for detached curb.

MANUFACTURING PLANTS.

BANGOR, ME.—Armour & Co., Chicago, Ill., will erect this summer on land at Union and Front Sts., a refrigerator and packing plant to cost about $100,000. The building will be of brick, three stories high, fronting 140 ft. in Front St., with spur tracks from the Maine Central R. R. main line, which passes the door. It is intended that the building be completed before winter.

DOVER, ME.—The Mayo & Son Co. are preparing plans for the erection of a new mill building near the structure now used as a woolen mill. The building will be 125 ft. in length and will be built entirely of concrete. When completed it will be equipped with machinery.

PEABODY, MASS.—PITMAN & BROWN CO., 249 Derby St., Salem, Mass., have the contract to build a 2-story brick addition, 187 × 60 ft., to the Danvers Bleachery, J. Howard Fallon, Mgr., Peabody.

CLINTON, MASS.—The Clinton Wire Cloth Co. will construct an addition to its plant on property at Sterling and Maple Sts.

INDUSTRY, N. Y.—Bids are asked by Miss Laura E. Aldridge, Pres. Bd. of Manufacturers of the New York State Agricultural and Industrial School, until May 26, for constructing a slaughter house, creamery building and cold storage plant here.

BUFFALO, N. Y.—Frank H. Chappelle, Arch., has let general contract to CHARLES BERRICKS' SONS, 1151 Main St., for a 3-story addition to factory for Foster-Milburn Co., 246 Michigan St.

NEW YORK, N. Y.—We are officially advised that the Christie Iron Works, 159 East 18th St., will build a reinforced-concrete building on Eleventh Ave., north of 22d St. The lot measures 50 × 100 ft.

The WILLIAM YOUNG CO., 550 West 41st St., advises us that it has the general contract to construct an addition to the plant of the Nathan Mfg. Co., 106th St. and East River. Buchman & Fox, 9 East 59th St., are Archs.

The steel and corrugated iron car barn at 146th St. and Lenox Ave. is to be taken down and rebuilt on the foundation of the old car stables on the block bounded by 32d and 33d Sts. and Fourth and Lexington Aves. The receivers of the New York City Ry. Co. have obtained permission from the Superintendent of the Buildings Department. The Lenox Ave. car barn is 145 ft. wide and 280 ft. long. It will cost $10,000 to rebuild the steel shed on the stable site. A. V. Porter, 621 Broadway is Arch.

WATERVLIET, N. Y.—The Delaware & Hudson Co. will erect a roundhouse and repair shop south of Fifth St., in this town. James MacMartin, Albany, is Ch. Engr.; J. H. Manning, Albany, is Supt. of Motive Power.

NIAGARA FALLS, N. Y.—The Ryder Patent Yarn Co. has decided to erect a plant at James and Whitney Aves., upon a 12-acre lot. The company's investment in plant will be $325,000. Work will be begun at once upon the company's first building, 80 × 600 ft., plans of which are complete. The company will manufacture rope, cordage, belting, matting, fire hose and automobile tires.

JERSEY CITY, N. J.—We are officially informed that the TURNER CONSTRUCTION CO., 11 Broadway, New York, has been awarded the contract for construction of a factory and warehouse, six stories and basement in height, 38 × 100 ft., of reinforced concrete throughout. This building will be used by the R. U. Delapenha Co. at 39 Sussex St., Jersey City. Bosworth & Holden, 1170 Broadway, are Archs. Work will be begun at once.

PASSAIC, N. J.—The Botany Worsted Mills Co. will construct a 4-story brick addition to the plant on Dayton Ave. and its cost is fixed at $90,000. Its dimensions are given as 130 × 144. The structure is to be erected by the JOHN W. FERGUSON CO., United Bank Bldg., Paterson, N. J.

HAZLETON, PA.—We are officially advised that Ballinger & Perrot, Archs., and Engrs., 1200 Chestnut St., Philadelphia, have awarded contract to JAMES STEWART & CO., Westinghouse Bldg., Pittsburg, Pa., for an addition to the plant of the Duplan Silk Co., Hazleton, Pa. The building will have a frontage of 200 ft. on Diamond St. and a depth of 300 ft. It will about double the capacity of the present plant, and employ nearly 700 hands. A portion of the building will be 50 × 100 ft. with two stories and basement. This portion will have walls of brick and floors of reinforced concrete. The first and second stories will be arranged as lunch and comfort rooms for employees, including steam tables for heating the food, and model toilet arrangements. The remainder of the building will be one story in height, with roof of saw-tooth skylight construction, and will be used for silk weaving. The walls of this portion will be of brick and the roof of timber construction. There will be a yard in the center of the front of the building, and all entrance to the building will be by this yard, including shipping and receiving of goods. The present power plant will be extended, including an extension to the heating, which will be by blower system.

POINT MARION, PA.—The Point Marion Improvement Co. has completed arrangements for bringing a glass company here that will erect an 18-blower tank factory at a cost of $25,000. The Improvement Company announces that the plant will be in operation by next fall. A. Reichel, of this town, is interested.

BALTIMORE, MD.—F. M. Macken & Co., 509 North Spring St., will enlarge their brass foundry. An additional story 31½ ft. square will be erected on the building at 509 North Spring St. A 2-story brick addition, 18 × 31 ft., will be built in rear of foundry, 507 North Spring St.

The Baltimore & Ohio R. R. Co. has awarded contract to erect a grain elevator on West Pratt St. to JAMES STEWART & CO., Westinghouse Bldg., Pittsburg, Pa., it is stated. The structure will have seven stories and will cost about $150,000. D. D. Carothers, Baltimore, is Ch. Engr., B. & O. R. R. Co.

BALTIMORE, MD.—The Greenwald Packing Co., Hyman Powdermaker, Pres., Brunswick St., Union Stock Yards, contemplates erecting two additional stories to its cooler building, 100 × 120 ft.; Edgar Zielian, Pres. and Mgr. of the Atlas Construction Co., Continental Bldg., Baltimore, will be in charge. Cost, $12,000.

ELKTON, MD.—The Deibert & Wilson Textile Manufacturing Co.'s plant at Elkton, Md., was destroyed by fire recently, the loss being about $50,000. This plant had 180 ring spindles and 40 looms, for manufacturing turkey red damask and plain table cloths. It is reported that the company will rebuild at once.

WASHINGTON, D. C.—Bids are asked by Col. F. L. Denny, Q. M., U. S. Marine Corps, Washington, D. C., until 11 a. m., May 29, for erecting and equipping laundries at the Navy Yard, League Island, Pa., and at the Navy Yard, Norfolk, Va.

NORFOLK, VA.—The Adams Bakery, Lawrence A. Lathrop, Pres., 81-87 Fenchurch St., will erect building to replace structure recently burned. The new structure will be a 3-story brick and concrete building. Cost, about $20,000. Cost of machinery, about $10,000.

SAVANNAH, GA.—The Electric Supply Co. will erect a building with three stories and basement, brick, front of pressed brick and plate glass. The third floor will be equipped as a workshop, and will permit of installation of 25 winding machines. Total floor space, about 11,900 sq. ft.; cost, with site, about $20,000. A. A. ARTLEY & SON, of Savannah, have contract for construction.

ATLANTA, GA.—The Perkins Mfg. Co. will commence rebuilding its plant lately partly destroyed by fire at a loss of about $60,000.

W. H. Dexter, Empire Bldg., is interested in establishing a paving block plant. The machinery has not been purchased.

HOPEVILLE, GA.—The Germofest Mfg. Co. has obtained a site of 20 acres in Hopeville, a suburb of Atlanta, upon which it will establish a plant for the production of fertilizer, etc. G. W. Chisholm, Charleston, S. C., is Pres.

ENSLEY, ALA.—The Semet-Solvay Co., of Ensley, Ala., has under consideration the question of doubling the capacity of the Ensley plant. The company now has 240 coke ovens. The Semet-Solvay Co. takes the coal from the Tennessee Coal, Iron & R. R. Co. and makes it into coke. It also secures the by-products.

BILOXI, MISS.—Bids are asked for installing a complete laundry plant at the Jefferson Davis Beauvoir Memorial Home, five miles west of Biloxi. T. M. Henry is Secy.

KNOXVILLE, TENN.—The Knoxville Iron Co., Knoxville, intends to build a machine shop, 50 × 80 ft., in which will be installed the machines in the present shop. The company will require no new machinery.

CLEVELAND, OHIO.—White & Shupe, Schofield Bldg., are preparing plans for a 1 and 2-story plant for the Morgan Lithograph Co., St. Clair and East Third Sts.

BARBERTON, OHIO.—Ground has been broken for an addition to the factory of the Diamond Match Co. The contract for the excavations and brick work has been let to the WINDSOR BRICK CO., of Akron, Ohio, and the company will do its own carpenter work. The factory building will be 380 ft. long, the same width as the other main building and four stories high. It will have a wing 130 ft. long. The building will be located south of the present main building. An office building, 60 ft. wide and 95 ft. long, two stories in height, will be built at the southeast corner of Robinson Ave. and Second St. Head office, 115 Broadway, New York.

FORT WAYNE, IND.—John M. E. Riedel, Arch., Schmitz Bldg., Fort Wayne, has prepared plans for a 3-story factory for the Foster Shirt Waist Mfg. Co. Estimated cost, $20,000.

ELKHART, IND.—P. T. LONGACHER has been awarded contracts by A. H. Ellwood & Son, Archs., as follows: Masonry contract for 4-story factory for the Sterling Hudson Whip Co.; general contract for a 2-story factory for the Elkhart Motor Co., to cost $10,000.

EVANSVILLE, IND.—The Hohenstein-Hartmetz Furniture Co. will ask for bids soon for construction of a plant on the site of the factory recently destroyed by fire on Fulton Ave.

CHICAGO, ILL.—We are officially advised that the contract for constructing two 7-story and basement fireproof manufacturing buildings, 96 × 218 ft., for Sprague Warner & Co., on Roberts St., has been let to the LANQUIST & ILLSLEY CO., 393 North Clark St. Cost, $200,000. C. A. Eckstorm, 131 La Salle St., is Arch.

Huehl & Schmid, Archs., Metropolitan Block, have made plans for a factory building for the Fred Rentz Paper Co., 18 North Green St. Cost, $12,000.

A 12-story fireproof factory, 140 × 190 ft., is to be built by Hart, Schaffner & Marx, at a cost of about $1,000,000. It will be of steel construction, with hollow tile floors, brick walls and saw-tooth roof. There will be a system of elevators, package conveyors, pneumatic tubes, etc., together with ventilating plants for the workrooms and a refrigerating plant for drinking water which will be distributed by pipes. Holabird & Roche, Monadnock Block, Chicago, are Archs. and Engrs.

LA CROSSE, WIS.—Plans are being prepared by W. E. Bennett, Batavian Bank Bldg., for a 4-story and basement addition to the factory of the Funke Candy Co. Cost, $50,000.

JANESVILLE, WIS.—We are officially advised that FREDERICK A. LITTLE, Fond du Lac, Wis., has been awarded the contract to design and construct a fireproof tobacco warehouse for F. S. Baines, at Janesville. The structure will be entirely of reinforced concrete with fireproof doors and skylights.

MARSHALLTOWN, IOWA.—L. E. Armstrong, of Fort Dodge, Iowa, and associates, will expend about $100,000 for improvements to pottery plant here.

ST. LOUIS, MO.—William O. Langan is having plans prepared by C. Ross Chamblin, 620 Chestnut St., St. Louis, for a storage house to be built on a site 120 × 167 ft. and to cost $300,000.

FALFURRIAS, TEX.—The Farmers' Gin & Milling Co. will build a cotton gin to cost about $15,000. The contract for equipment awarded to SAN ANTONIO MACHINE & SUPPLY CO., San Antonio, Tex.

FREDERICKSBURG, TEX.—The Texas Short Line, D. C. Earnest, Gen. Mgr., Dallas, Tex., will erect four stations, two coaling stations, two repair shops, two roundhouses, four steel water tanks, ten iron bridges and one tunnel on proposed branch line from Comfort, Tex., to Fredericksburg. The supplies required will include turntables, water-softening plants, etc.

FORT SAM HOUSTON, TEX.—See under Buildings.

PORTLAND, WASH.—Plans are being drawn for a factory building to cost $60,000 for the Campbell Automatic Gas Burner Co., which will be erected in the East Portland factory district. The company will employ between 350 and 400 men in the plant.

LODI, CAL.—Articles of incorporation of the Lodi Fruit Product Co. have been filed. A Board of Directors consisting of the follow-

ing men of Lodi was named: W. A. Moorehead, W. F. Cochrane, O. O. Osborne, Ed E. Breidenbucher, A. J. Weinert, George Swain and John F. Stein. The capital stock was placed at $1,000,000 and the objects of the organization are to manufacture unfermented grape juice, syrups and other by-products from grape culls and stock that cannot be marketed by the growers unless at a low figure A plant is to be constructed.

GLACE BAY, N. S.—The Dominion Coal Co. will rebuild its washing plant, recently destroyed by fire.

TORONTO, ONT.—A site has been purchased on Spadina Ave. by the Dr. Slocum Chemical Co., 179 King St., West, which will erect a plant and offices at a cost of $30,000.

BARRIE, ONT.—It is stated that car shops will be erected here by the Grand Trunk Ry. system. W. D. Robb, Montreal, Que., is Supt. of Motive Power.

HALIBURTON, ONT.—PITT & CO., of Niagara Falls, have secured a contract from the Woods Product Co., Ltd., of Toronto, for the chemical works to be built here. The contract comprises four buildings, a 50,000-gallon water tower, on a 75-ft. tower, and a dam 200 ft. long, all in Niagara system reinforced concrete.

ST. BONIFACE, MAN.—Northwood, Noffke & Chickers, Archs., Northern Bank Bldg., Winnipeg, have let contract to ROBERT WATSON, McIntyre Block, Winnipeg, for the proposed plant to be erected in St. Boniface for the Manitoba Linseed Oil Mills Co., Winnipeg, to cost $20,000; equipment, $30,000. The contracts for heating and storage plants have not been awarded.

VANCOUVER, B. C.—M. J. Scanlon, Lumber Exchange, Minneapolis, Minn., has announced that the Scanlon-Brooks Lumber Co. will erect two saw mills in this province during the summer at a cost of over $750,000.

MISCELLANEOUS CONTRACTS.

(denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DREDGING.—Wilmington, Del.—Bids are asked by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Wilmington, until 11 a. m., May 29, for dredging in Salem River, N. J.

TARGET RANGE.—Seattle, Wash.—Bids are asked by Maj. W. S. Wood, Q. M., U. S. A., until 11 a. m., June 3, for work in connection with construction of a target range at Fort Lawton, Wash.

DUCK BAGS.—Columbus, Ohio.—Bids are agara Falls, Ont., have secured contract from Service for 18,000 duck bags for the water purification works, Columbus. John H. Gregory, Engr.-in-Charge.

DITCH.—Frankfort, Ind.—Bids are asked by Wm. A. Robison, Drainage Comr., until 2 p. m., May 30, for the construction of the Markwood Slipher ditch, known in the Clinton Circuit Court as Cause No. 711.

DERRICKS, ENGINES.—New York, N. Y. —Bids are asked until 11 a. m., May 27, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing six steel frame traveling derricks, with vertical gasoline hoisting engines.

CLEARING.—Vancouver, B. C.—JOHNSON & CAMPBELL, of this city, have been awarded the contract for clearing 450 acres at Prince Rupert, B. C., for the Grand Trunk Pacific R. R. Co., at $75 per acre.

REPAIRING FERRYBOATS.—New York, N. Y.—Bids are asked by Allen N. Spooner, Comr. Docks, until noon, May 29, for Contract No. 1133; for preparing for and painting the hulls of the municipal ferryboats.

DITCH.—Norwood, Iowa.—Bids are asked until 1 p. m., May 21, by Iver Iverson, County Audr., for constructing a drainage ditch and tile drain in this county. Bids may be submitted separately for open ditch and tile work.

TELEPHONES.—Winnipeg, Man.—The Provincial Department of Telephones will spend $500,000 this summer in building additions and extensions to the provincial telephone system. Orrin F. French is Ch. Engr. of Dept.

CONCRETE WORK.—Woodstock, Ont.—POWER & BREWER, of this city, have contracts for concrete work on the Grand Trunk Pacific R. R., involving 75,000 cu. yds. of concrete, to cost approximately $350,000.

DITCH.—New Castle, Ind.—Bids were received by the County Drainage Commissioners on April 29 for constructing the Buck Creek Ditch. Contract has been let to JONES BROS., of Syracuse, Ind. Estimated cost, $15,000.

DITCH.—St. Paul, Minn.—Bids are asked by G. A. Ralph, State Engr. until 2 p. m., June 2, for the construction of Judicial ditch No. 1 in Aitkin, St. Louis and Itasca Counties, containing 394,780 cu. yds. Estimated cost, $40,000.

REPAIRING STEAM VESSEL.—New York, N. Y.—Bids are asked by Theo. A. Bingham, Police Comr., until 10 a. m., June 1, for repairs to the steam vessel "Patrol," stationed at Pier "A," North River, Boro. of Manhattan.

LEVEE.—Memphis, Tenn.—Bids are asked until noon, June 10, by Capt. Wm. D. Connor, Corps Engrs., U. S. A., Mississippi River Comn., 20 Custom House, Memphis, for about 205,000 cu. yds. levee work in Upper St. Francis Levee District.

FIRE ALARM.—New York, N. Y.—Bids are asked until 11 a. m., June 1, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, for erecting fire alarm telegraph connections and installing signal boxes, etc., at various schools in the Boro. of Queens.

CEMENT.—Chattanooga, Tenn.—The KOSMOS PORTLAND CEMENT CO., Kosmosdale, Ky., has been awarded a contract for 125,000 bbls. of cement to be used in the dam of the Tennessee River, near Chattanooga, under the supervision of the U. S. Government.

STONE, SCREENINGS.—New York, N. Y. —Bids are asked by Lawrence Gresser, Pres., Boro. Queens, until 11 a. m., June 1, for furnishing and delivering to the Bureau of Highways broken stone and screenings of limestone and broken stone, and screenings of trap rock in Boro. Queens.

DREDGING, DIKING, ETC.—Key West, Fla.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., June 13, for dredging, diking and filling at the naval station, Key West, Fla. Specifications are on file at office of Engineering News, New York.

TELEPHONE MATERIAL. — Edmonton, Alta.—The contract for the supply of the material necessary for the construction of 700 miles of long-distance telephone lines has been awarded by the Provincial Department of Telephones to the NORTHERN ELECTRIC CO., of Montreal, Que., and Winnipeg, Man.

MONUMENT DESIGNS.—Mexico.—Designs are invited by the Juarez Monument Committee, Ciudad Juarez, State of Chihuahua, for a monument to cost about $125,000. Designs must be submitted before Sept. 1. Prizes will be offered for the three best designs received, the first prize to be $5,000, the second $3,000 and the third $1,000.

SAND, GRAVEL.—Washington, D. C.—Bids were received by the District Commissioners on May 14 for annual supplies, including sand and gravel, as follows: Sand and gravel: Potomac Dredging Co., Washington, 62 cts., sand; 87 cts., gravel; L. E. Smoot, Washington, D. C., sand, 59 cts.; gravel, 82 cts.

CEMENT.—Boise, Idaho.—C. R. SHAW, of Boise, has been awarded a contract by D. C. McWatters, Gen. Mgr. of the Twin Falls Salmon River Land & Water Co. Contract calls for 65,000 bbls. of cement, to be used in the construction of the dam to be built 30 miles south of Twin Falls. Value of contract will be approximately $260,000.

CONCRETE PILES.—Boston, Mass.—George A. Kimball, Ch. Engr. of Elevated and Subway Construction for the Boston Elevated Ry. Co., has awarded the RAYMOND CONCRETE PILE CO., of New York and Chicago, the contract for placing concrete piles for the foundation of the incline walls at the north approach to the East Cambridge extension of that road.

TELEPHONE SYSTEM.—Winnipeg, Man. —Bids are asked until noon, May 25, for the construction of about 320 miles of long-distance telephone lines for the Provincial Department of Telephones. Check, 5%. Plans and specifications may be seen at the Department of Telegraphs and Telephones, Winnipeg. Orrin F. French, Ch. Engr.

ROCK.—New Orleans, La.—Bids are asked until 11 a. m., June 6, by Maj. J. F. McIndoe, Corps Engrs., U. S. A., 1539 Louisiana Ave., for furnishing about 10,000 tons rock at points on Mississippi River below Vicksburg, Miss.

Bids are asked at the same time for furnishing about 10,000 tons rock for New Orleans Harbor.

DREDGING.—Ottawa, Ont.—Bids are asked until 4 p. m., May 26, by Fred. Gelinas, Secy. Dept. Public Works, for dredging required at the following places in the Province of New Brunswick: Buctouche Beach, Buctouche Harbor, Caraquet, Cape Tormentine, Dalhousie, Loggieville, Miramichi Bay, Maguapit Lake, Oromocto Shoals, Pointe du Chene and Quaco.

*SEAWALL, ETC.—Boston, Mass.—Bids were received on May 6 by Capt. Ira L. Fredendall, Const. Q. M., 263 Summer St., Boston, for the construction of a reinforced concrete seawall, rip-rap revetment, etc., at Fort Warren, Boston Harbor. The bids received, which were noted last week, have been rejected and the work will not be readvertised for the present.

*FLOOD CONTROL.—Harrisburg, Pa.—Contract was awarded by the Board of Public Works on May 15 to the FERRO-CONCRETE CO., Union Trust Bldg., Harrisburg, for the construction of works to control floods in Paxton Creek Valley, and all necessary appurtenances in the City of Harrisburg, James H. Fuertes, 140 Nassau St., New York, N. Y., is Consult. Engr.

LAUNCHES AND STEAMERS.—Washington, D. C.—Bids are asked until June 10 by the Quartermaster General, Washington, D. C., for the construction and complete equipment of from one to five 60-ft. wooden launches with gasoline motors for harbor service of the War Department; and for the construction and complete equipment of from one to seven 60-ft. wooden steamers for the same service. J. B. Aleshire, Q. M. Gen.

IRON POSTS.—Ottawa, Ont.—Bids are asked by the Department of the Interior, P. G. Keyes, Secy., until noon, June 8, for furnishing 45,000 iron posts, small size, and 1,300 iron posts, large size, for use on the survey of Dominion lands, to be delivered in specified lots at Winnipeg, Man., Saskatoon, Sask., and Edmonton, Alta. Specifications and detailed information can be obtained from the Surveyor-General of Dominion Lands, Ottawa.

*DREDGING.—Bridgeport, Conn.—Bids were received as follows on May 13 by Maj. Harry Taylor, Corps. Engrs., U. S. A., New London, Conn., for dredging in Bridgeport Harbor, Conn.: Edward A. Berry, Rensselaer, N. Y., 11⅞ cts. a cu. yd.; J. S. Packard Dredging Co., Providence, R. I., 13.9 cts.; International Contracting Co., New York City, 13 cts.; P. Sanford Ross, Inc., Jersey City, N. J.; 11.2 cts.; Atlantic Dredging Co., New York City, 15 cts.; John P. Randerson, Albany, N. Y., 14.75 cts.; Maritime Dredging Co., New York City, 10.65 cts.

*DREDGING.—Norfolk, Va.—Bids were received as follows May 15, by Maj. Joseph E. Kuhn, Corps. Engrs., U. S. A., for dredging Appomatox River, Va.: The work consists of 100,000 cu. yds. of dredging and placing material in levees and dykes. Miner Engineering Co., Washington, D. C., $37,000; Maryland Dredging & Contracting Co., Baltimore, Md., $32,000; W. H. French & T. M. Lewis, Norfolk, Va., $35,250; Coastwise Dredging Co., Norfolk, $40,000; P. Sanford Ross, Jersey City, N. J., $41,480; Atlantic Dredging Co., Philadelphia, Pa., $30,500.

*WHARF.—Portland, Me.—Two bids were received on May 14 by Maj. George A. Zinn, Corps Engrs., U. S. A., for constructing a concrete wharf. Itemized prices are given under Contract Prices in this issue.

DITCH.—Juneau, Wis.—Regarding the construction of proposed Horicon drainage ditch, Leonard S. Smith, of Madison, Const. Engr., advises us that "an adverse decision by the Wisconsin Supreme Court on a question of our right to remove a dam has put an end, at least for a time, to the Horicon drainage project." Bids were asked until May 4, as noted on April 2. Estimated cost, $400,000.

*DREDGING, EXCAVATION.—Chicago, Ill. —Bids were received on May 13 by Col. W. H. Bixby, Corps Engrs., U. S. A., for dredging and rock excavation in the Chicago River and Harbor. The Fitz Simons & Connell Co., Chicago, Ill., was the lowest bidder for $60,000 worth of dredging in Main Branch of Chicago River and Lake Entrance. Price bid, 22½ cts. per cu. yd. The Great Lakes Dredge & Dock Co., Chicago, was the lowest bidder for the following: $95,000 worth dredging, North Branch and Canal, 17.25 cts. per cu. yd.; $26,757 worth dredging, South Fork of South Branch, 29 cts. per cu. yd.; $89,190 worth of rock excavation, South Fork, South Branch, $4.80 per cu. yd.; $16,053 worth of removal of non-dredgable hardpan, South Fork, South Branch, $2.40 per cu. yd.

*CARS.—Brooklyn, N. Y.—James W. Stevenson, Comr. of Bridges, will sell at public auction, to the highest bidder, on June 2, at 10.30 a. m., at the Railroad Yard, foot of 39th St., Brooklyn, 92 passenger coaches, as follows: 48 wooden truck cars, net weight, about 17 tons each; 24 iron truck cars, net weight, about 19 tons each; 20 motor cars, net weight, about 36 tons each; 54 of the cars are stored on track at Coney Island, between Harway Ave. and Sea Gate, and the remainder at the 39th St. yard, where sale is held. All the cars are about 9 ft. 6 ins. wide, 48 ft. 9 ins. long and 13 ft. 2 ins. high. Are equipped with side and end doors, Baker heaters and electric lights. The 72 passenger coaches are equipped with cable grips and vacuum brake system. The 20 motor cars are each equipped with four 62½-HP. electric motors, and vacuum brake system.

SEAWALL.—Newport, R. I.—Bids were received as follows on May 11 by Capt. Willis C. Metcalf, Q. M., U. S. A., Newport, for the construction of a seawall, removal of face cover, grading, filling, sodding etc., at Fort Adams, R. I.: (A) For work complete—with seawall built of granite blocks; (B) alternate bid—for same, with seawall built with riprap foundation; then constructed with concrete: Darling & Slade, 56 North Main St., Fall River, Mass. (A) $33,340, (B) 31,780; time, six months. Michael A. McCormick, 4 Sherman St., Newport (A) $41,000, (B) $63,000; six months. John F. Sullivan, 26 Narragansett Ave., Newport (A) $61,500; six months. J. K. Sullivan, 60 Pelham St., Newport (A) $36,585; twelve months. Roy H. Beattie, 57 North Main St., Fall River (A) $56,456; six months. McHale & Perkins, 930 Old South Bldg., Boston (A) $34,144, (B) $33,724; 150 days.

CANAL.—Passaic, N. J.—The Hudson & Passaic Canal Co. has been incorporated, with capital of $90,000, to construct a tidewater canal, 250 ft. wide and 35 ft. deep, from the Passaic River opposite Passaic to the Hudson River at Edgewater, a distance of eight miles. The estimated cost of the work is $10,000,000. The incorporators are Lemuel Wm. Serrell, M. E., of Plainfield; Rear-Admiral John J. Read, U. S. N., Mt. Holly; John J. O'Leary, Passaic; Chas. H. Bickell, of John Arbuckle & Co., of New York, N. Y.; Arthur V. Conover, Supt. U. S. Lighthouse Service, Staten Island, N. Y.; Col. Chas. A. Reid, of the Delaware Construction Co., Trenton; Gen. G. E. P. Howard, South Orange; Robert A. Montgomery, Lambertville, of the B. M. & J. F. Shanley Co.; Gilbert D. Bogart, of Passaic; Gen. Bird W. Spencer, Pres. of the People's Bank & Trust Co., Passaic.

*TEST BORINGS.—St. Louis, Mo.—Bids were received as follows on April 30 by the Board on Examination and Survey of Mississippi River, Liggett Bldg., St. Louis, Mo., for making test borings in the river bottom lands between St. Louis and Cairo: (A) If all transportation of contractor's plant, etc., is provided by contractor; (B) if transportation, etc., is provided by U. S. Government; (C) time of completion: James Kinney, Jr., Bellaire, Ohio (A) $6,595, (B) $5,880, (C) 40 days; McCully Construction Co., St. Louis, Mo. (A) $21,714, (B) $21,428, (C) 100 days; Edw. Chrisman, Massillon, Ohio (A) $7,649, (B), $6,998, (C) 50 days; Healey Sewer Machine and Construction Co., New York, N. Y. (A) $128,820, (B) $120,120, (C) 60 days; Samuel B. Geiger, Chicago, Ill. (A) $12,340, (B) $11,637, (C) June 30, 1908; W. M. Wigginton, R. L. Milton and W. N. Sevey, Webb City, Mo. (A) $15,940, (B) $14,510 (C) 51 days.

LEVEE.—New Orleans, La.—Bids were received as follows on May 8 by Maj. J. F. McIndoe, Corps Engrs., U. S. A., for constructing about 200,000 cu. yds. of new levee at Hard Times in the Lower Tensas Levee District: (A) Lot 1, Sections 1-6; (B) Lot 2, Sections 1-6; (C) Lot 3, Sections 1-6; (D) Lot 4, Sections 1-6—each containing 72,500 cu. yds.: I. R. Bobbitt, Baton Rouge, La. (A) 27.5 cts., (B) 24 cts., (C) 18.9 cts., (D) 24 cts., or all four lots at 22.7 cts., or lots 3 and 4 at 21 cts.; Robert T. Clark, Natchez, Miss. (A) 29 cts., (B) 21 cts., (C) 18 cts., (D) 26 cts., or all four lots at 23.45 cts.; Donovan & Daley, Lake Providence, La. (A) 29.5 cts., (B) 23.5 cts., (C) 18.4 cts., (D) 28 cts.; Helgason Bros., Vicksburg, Miss. (A) 16 cts., (B) 18 cts., (C) 16 cts., (D) 16 cts. (recommended for acceptance); A. E. Parker, Vicksburg, Miss. (C) 18 cts.; O. A. Gibson, Natchez, Miss. (A) 30 cts., (B) 22 cts., (C) 21 cts., (D) 27 cts., or all four lots at 24[illegible]; Jno. Scott & Sons, St. Louis, Mo. (A) 2[illegible], (B) 27 cts., (C) 27 cts., (D) 27 cts.

TRAMWAY.—Los Angeles, Cal.—The Board of Public Works has awarded contract to the TRENTON IRON CO., Trenton, N. J., for the 8,000-ft. wire rope tramway to be used in conveying clay for [illegible] cement plant at Aqueduct, near Tehachapi, [illegible] $12,700. The tramway will involve a d[illegible] rope system, extending from the cement [illegible] to the bed of Salt Lake, where the [illegible] will be obtained for making the cem[illegible] be used in constructing the aqueduct. [illegible] city will furnish a motor of requisite [illegible] and speed, while the Trenton Iron Co. [illegible] to construct the tramway before [illegible] October, when the cement plant will [illegible] in operation. A three-year guarantee is given by the Trenton Iron Co.

*CEMENT.—Wheeling, W. [illegible]—Bids were received as follows on Ma[illegible] by Capt. F. C. Boggs, Corps Engrs., U. S. A., for furnishing and delivering a[illegible] 6,500 bbls. of American Portland cement [illegible] Dam No. 18, Ohio River: The J. [illegible] Wright Co., Wheeling, W. Va., "Giant" [illegible], $10,205; "Alma," $9,750; The Ironton Portland Cement Co., Ironton, Ohio, "[illegible]stone," $9,280; D. J. Kennedy Co., Pittsburg, "Bath," $10,215; The Cumberland [illegible] Cement & Mfg. Co., Cumberland, Md., "[illegible]gon," $10,480; Lehigh Portland Cement Co., Allentown, Pa., "Lehigh," $10,54[illegible]; Alpha Portland Cement Co., Pittsburg, "Alpha," $10,215; The Atlas Portland Cement Co., New York, N. Y., "Atlas," $10,20[illegible]; Alsens Am. P. Cement Works, New York, N. Y., "Alsen," $10,497; Miller & Coulson, Pittsburg, "Penn-Allen," $10,505.

*PIER.—Holland, Mich.—Bids were received as follows by Col. M. B. Adams, Corps Engrs., U. S. A., Grand Rapids, on May 13 for repairing South Pier at Holland, Mich.: J. C. Hathaway, Milwaukee, $30,136; Robert Love, Muskegon, Mich., $20,688; Burk, Smith & Nelson, Muskegon, $21,196; Nelson J. Gaylord, Ludington, Mich., $22,184; Columbian Construction Co., Muskegon, $19,373; Bennett-Schnorbach Co., Muskegon, $22,671.

U. S. POSSESSIONS AND CUBA.

(denotes that this work is advertised in Engineering News.)*

BOX CARS.—Panama.—Bids are asked until 2 p. m., June 2, by the Panama R. R. Co., 24 State St., New York, for furnishing 300 box cars. Blanks and full information (Circular P-137) may be obtained from F. C. Nordsiek, Asst. Purchasing Agent.

LIGHT-HOUSE.—Alaska.—Bids are asked by the Light-house Engineer, Portland, Ore., until noon, Aug. 14, for material, erection and construction of Hinchinbrook Entrance Light Station, Alaska.

Bids were asked for this work on Jan. 14 and it was reported that only one bid was received and that the contract had been awarded to Fastabend, Palmberg & Halbeck, Astoria, Ore., at $99,550.

PILING.—Panama.—The Isthmian Canal Commission, Washington, D. C., has rejected all bids recently received under Circular 436 for about 6,000 piles, yellow pine or Douglas fir, and has called for the same number of piles under revised specifications. New bids are asked under Circular 441-A, at 2.30 p. m., May 28, at the office of Col. H. F. Hodges, Gen. Purchasing Officer, Isthmian Canal Commission, Washington.

WATER-WORKS.—Cienfuegos, Cuba.—The general contract for constructing a system of water-works for the city of Cienfuegos has been let to H. J. RIELLY, Calle Cuba, 37, Havana. A sub-contract, covering practically all material and labor, has been let to the CUBA CONTRACT & SUPPLY CO., Cienfuegos. Cost, about $2,350,000. C. C. Vermeule, 203 Broadway, New York, N. Y., is Consult. Engr.

COALING CRANES.—Panama.—Bids were received as follows May 18, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing three 20-ton locomotive coaling cranes for use on the Isthmus: American Hoist & Derrick Co., St. Paul, $18,462; 60 days; Brown Hoisting Machinery Co., 26 Cortlandt St., New York, $24,600, 21 days shipment; Browning Engineering Co., Cleveland, Ohio, $22,330; $24,964, immediate shipment; Fox Bros. & Co., 126 Lafayette St., New York, $20,025, 140 days; Interstate Engineering Co., Bedford, Ohio, $22,890, 140 days; McMyler Mfg. Co., 1799 Columbus Road, Cleveland, Ohio, $30,900; $31,800, 120 days; Wellman-Seaver-Morgan Co., Cleveland, Ohio, $24,570, 120 days.

SEWER PIPE.—Panama.—Bids were received as follows: May 18, at the office of the Isthmian Canal Commission, Washington, D. C., for furnishing about 86,500 ft. of vitrified sewer pipe, 4-in. to 15-in., with fittings: American Sewer Pipe Co., Pittsburg, $15,777.40; $17,451; 60 days. Blackmer & Post Pipe Co., St. Louis, $23,058; 30 days. Central Metal & Supply Co., Baltimore, $24,075; 90 days. William Wirt Clark & Sons, Baltimore, $20,170; 90 days. Walter S. Dickey, Kansas City, Mo., $18,167; 40 days. Evans & Howard Fire Brick Co., St. Louis, $22,201; 30 days. C. R. Payne, Texarkana, Tex., $14,310; U. S. delivery, 42 days. Robinson Clay Products Co., New York, $20,300; $18,350; 90 days. Southern Trading Co., New Orleans, $15,698; 70 days. Stauffer, Eshleman & Co., New Orleans, $14,833.

FOREIGN CONTRACTS.

FIREPROOF ROOFING. — Italy. — The Executive Committee of the International Exposition, which will be held in Turin during the year 1911, has opened an international competition for the best fireproof material which will be used in covering the lumber and cloth employed in the buildings of the exhibition. The samples should be sent free of charge to the Direzione del Laboratorio di Docimastica del Regio Politecnico di Torino, Turin, Italy. They must be

in sufficient quantity to cover at least 50 square meters of lumber and should reach Turin not later than the end of October, 1908. Several prizes in gold and silver medals and money will be awarded to the best qualities of material exhibited.

BRIDGES.—Egypt.—The Egyptian Government has awarded contract to the COMPAGNIE DE FIVES, of Lisle, France, at $1,493,405, for the construction of two bridges to connect Bulak, the industrial quarter of Cairo, and Embaba, on the western bank of the Nile. The main bridge from Bulak to the island of Gezireh will be 900 ft. long and 65 ft. wide. The second bridge, from the island of Gezireh to Embaba, to complete the connection with the western bank of the river, will be 410 ft. long and 45 ft. wide.

CONTRACT PRICES.

[Where * precedes items under Contract Prices the work was advertised in Engineering News.]

*WHARF.—Portland, Me.—Bids were received on May 14 by Maj. George A. Zinn, Corps Engrs., U. S. A., for constructing a concrete wharf. Bids in detail were as follows—(A) McHale & Perkins, Boston; (B) H. I. Crandall & Son Co., East Boston, Mass.:

	(A)	(B)
Roadway total price	$1,800.00	$5,050.00
560 sq. yds. riprap	4.00	2.70
400 lin. ft. curbing	1.10	.90
1,070 lin. ft. R.R. track	2.00	1.95
280 sq. yds. pavement (concrete)	1.25	1.85
600 sq. yds. pavement (macadam)	1.00	.42
Concrete:		
1,025 cu. yds. shore block	6.50	8.10
1,610 cu. yds. hearting	5.75	6.00
600 cu. yds. top deck	7.00	7.60
80 cu. yds. stairway	9.00	8.95
65 cu. yds. concrete in bags	25.00	40.00
725 cu. yds. concrete blks	16.00	14.00
4 mooring posts	25.00	32.00
30 piles	15.00	25.00
3,600 ft. B. M. hard pine timber	60.00	88.00
1,700 ft. B. M. oak timber	90.00	95.00
Total	$42,554	$47,123

*SEWERAGE.—Louisville, Ky.—Bids were received on April 29 by the Commissioners of Sewerage for the construction of Section "A" of the Southern Outfall sewer system as follows: (A) FERRO CONCRETE CONSTRUCTION CO., Cincinnati, Ohio (awarded contract); (B) Mason & Hauger, Richmond, Ky.; (C) E. G. Nave Bro. Co., Portsmouth, Ohio; (D) H. Bickel Co., Louisville; (E) T. B. Jones Co., Louisville; (F) Blackstaff Engineering Co., Philadelphia, Pa. J. B. F. Breed is City Engr.

occur in any branch of the service. The duties in connection with these positions are identical with those of the assistants in the physical laboratories of scientific and technical institutions. As far as practicable, appointees are assigned to work in the subjects for which they are best fitted. Age limit, 20 to 35 years. Application Form 1312. No application will be accepted unless properly executed and filed, in complete form, with the Commission at Washington prior to the hour of closing business on May 23.

LAMP INSPECTOR.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 3 to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Assistant, qualified as lamp inspector, at $900 a year, in the Bureau of Standards, Depart. Commerce and Labor, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years or over. Application Form 1312. No application will be accepted unless properly executed and filed with the Commission at Washington prior to the hour of closing business on May 23. It is desired that applicants for this position should have had experience in an incandescent lamp factory, particularly in the inspection and testing departments, with a knowledge of the principal processes in the manufacture of electric incandescent lamps, and of the methods employed in factory inspection and testing, including inspection of physical and mechanical properties, testing of vacuum, and the photometric and electrical testing for initial candlepower, watts and life.

CHEMIST.—Washington, D. C.—The U. S. Civil Service Commission announces the postponement to June 3-4 of the examination scheduled to be held for "Junior Chemist" on May 6-7, to secure eligibles from which to make certification to fill a number of vacancies in the Technologic Branch of the Geological Survey, at salaries ranging from $1,020 to $3,000 a year, and vacancies rebuiring similar qualifications as they may occur. From the register established as a result of this examination certification will be made in accordance with the ratings received on training and experience and the salary which the eligible is willing to accept. Those who receive 90 per cent. or over on this subject will be eligible for chemist positions at salaries ranging from $2,400 to $3,000 a year; those who receive a rating on this subject of 80 per cent. or over but less than 90 will be eligible for certification to assistant chemist positions at salaries ranging from $1,620 to $2,160 a year, and those who receive ratings on this subject of 70 per cent. or over but less than 80 will be eligible for certification to junior chemist positions at salaries ranging from $1,020 to $1,380 a year. Promotion from lower to higher grades may be made from time to

given ample notice of the time and place of examination. No one will be admitted to the examination without the official notice (Form E-8) from the Chief Examiner of the Commission. Competitors must be at least 21 years of age, and must be citizens and residents of New York State, except as otherwise indicated.

Axeman. Minimum age, 18 years. Maximum salary, $2 a day. Requirements: Knowledge of arithmetic, elementary mensuration, and beginner's work in engineering office or field work. The questions will be divided into two parts—mathematics and duties.

Chief Engineer, Erie County Service. Open to legal residents of Erie County only. This examination is intended to provide eligibles for Chief Engineer of the Erie County Almshouse at $4.50 a day and for similar positions in the county service as vacancies may occur. Candidates must have had at least five years' experience as machinist, boilermaker, fireman, oiler, assistant engineer or engineer, including at least two years as engineer of stationary engines and electrical machinery.

Examiner, Insurance Department, $2,000 to $2,500. Candidates must be men of good address with business experience and familiar with the examination of accounts and statements of assets, liabilities, receipts and disbursements. Ten appointments are expected.

Inspector of Weights and Measures, Dept. of State Superintendent of Weights and Measures, $1,100. Open to men only. Candidates must have had at least one year's experience in the manufacture, testing or inspection of scales.

TOPOGRAPHICAL DRAFTSMAN. — New York, N. Y.—Following are the first 15 of a list of 157 names of persons who passed the examination held on Dec. 30, 1907, by the Municipal Civil Service Commission for the position of topographical draftsman (established May 14):

Karr, Corydon, P., 70 Fifth Ave.	93.30
Thoma, Jacob (N. Q.), 952 Trinity Ave., The Bronx	91.30
Ruge, Bernard A., 531 West 179th St.	89.50
Thompson, Alex., 419 West 31st St.	89.00
Muller, Francis, 136 East 17th St.	88.10
Woehrlin, George J., 15 West 98th St.	87.20
Ash, William J., 130 West 128th St.	87.10
Boyer, Howard F., 100 Lamont Ave., Elmhurst, L. I.	86.90
Klein, Arthur, 768 Elm St., Peekskill, N. Y.	86.50
Findlay, William, 371 Convent Ave.	86.50
Sherman, Frank M., 940 East 165th St.	86.30
Byram, Cleveland V., 1242 Rogers Ave., Brooklyn	86.10
Burrows, George, 564 Fox St., The Bronx	86.00
Catlin, Harold B., 343 West 20th St.	85.40
Mellor, Charles E., 226 East 118th St.	85.30

	(A)	(B)	(C)	(D)	(E)	(F)
1,867 lin. ft. Earth Excavation and Refill	$20.25	$23.00	$26.00	$25.70	$25.00	$34.27
Lump Sum Earth Excavation and Refill Connecting Chamber	587.67	1,000.00	350.00	750.00	730.00	725.00
Lump Sum Earth Excavation and Refill Outlet Structure	9,696.10	4,000.00	6,000.00	12,750.00	13,500.00	10,580.00
3,110 cu. yds. Concrete Masonry	7.10	7.00	7.25	7.00	8.15	7.59
66 cu. yds. Concrete Masonry in Connection Chamber	9.00	7.50	15.00	12.00	10.00	9.60
446 cu. yds. Concrete Masonry in Outlet Structure	8.40	7.50	16.00	12.00	12.00	10.82
62 lin. ft. Half Round Tile, 36 in. diam	5.00	1.50	4.00	4.25	3.00	4.68
2,390 sq. yds. Vitrified Brick Lining	1.56	2.00	2.00	1.40	1.50	1.58
240,000 lbs. Reinforcing Metal, Plain square bars	.0325	.04	.0325	.0275	.036	.05
235,000 lbs. Reinforcing Metal, Corrugated bars	.034[1]	.04[2]	.0325[2]	.03[1]	.0375[3]	.055[1]
235,000 lbs. Reinforcing Metal, Corrugated bars	.0315[4]	.04[5]	.0325[6]	.032[7]	.0377[2]	[8].0575
100 cu. yds. Earth Excavation below Masonry	5.67	1.00	1.00	2.00	1.00	1.08
100 cu. yds. Gravel Refilling below Masonry	5.67	1.00	1.00	1.00	1.50	2.88
22 lin. ft. Manholes	4.00	3.50	5.00	4.00	4.00	7.20
4,031 lin. ft. Piles in place	.72	.70	.50	.60	1.25	.78
1,900 lin. ft. Under drain, 12"	.50	.50	.75	.50	.40	.65
Cleaning up, lump sum	400.00	1,000.00	500.00	500.00	1,500.00	2,160.00
Totals	$91,598	$92,873	$102,481	$104,782	$112,484	$129,024

[1](Twisted); [2](Maxwell); [3](Carb.); [4](H. Carb.); [5](Lug.); [6](Johnson); [7](Lug. John. Diam.); [8](Cup.).
Engineer's Estimate, $134,783.

CIVIL SERVICE EXAMINATIONS.

LABORATORY ASSISTANT (Glass Blower) —Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 24, to fill a vacancy in the position of laboratory assistant (glass blower), male, $1,000 a year, Bureau of Chemistry, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in any branch of the service. Applicants must show in their applications that they have had at least five years' practical experience in glass blowing, consisting of the construction and designing of all sorts of vacuum tubes, glass measuring apparatus, and the most intricate physical and chemical apparatus. Experience in commercial glass blowing—bottles, window glass, etc.—will not be accepted. Age limit, 20 to 50 years. Application Form 1312.

LABORATORY INSPECTOR (MALE).—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 3 to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Laboratory Inspector (male), in the Bureau of Animal Industry, Dept. Agriculture, at salaries ranging from $1,200 to $2,000 a year, depending upon the qualifications shown. The opportunities for appointment of eligibles are considered good. Men only will be admitted to this examination. Applicants must indicate in their applications that they have had at least the training received by a B. S. graduate from a recognized school and that they have had some practical experience in laboratory work. Experience in the examination of meats and meat-food products is very desirable, but not essential. Age limit, 20 to 45 years. Application Form 1312.

LABORATORY ASSISTANT.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on June 3 to secure eligibles from which to make certification to fill such vacancies as may occur in the positions of Laboratory Assistant in the Bureau of Standards, at salaries varying from $900 to $1,200 a year, and vacancies requiring similar qualifications as they may

time at the discretion of the Department. Age limit, 21 years or over. Application Form 1312. No application will be accepted unless properly executed and filed with the Commission at Washington prior to the hour of closing business on May 23, 1908.

TESTING ENGINEER.—Washington, D. C. —The U. S. Civil Service Commission announces the postponement to June 3-4, of the examination scheduled to be held for "Junior Engineer" on May 6-7, to secure eligibles from which to make certification to fill from 10 to 20 vacancies in the Technologic Branch of the Geological Survey, at salaries ranging from $1,020 to $3,000 a year, and vacancies requiring similar qualifications as they may occur. From the register established as a result of this examination certification will be made in accordance with the ratings received on training and experience and the salary which the eligible is willing to accept. Those who receive 90 per cent. or over on this subject will be eligible for engineer positions at salaries ranging from $2,400 to $3,000 a year; those who receive a rating on this subject of 80 per cent. or over but less than 90 will be eligible for certification to assistant engineer positions at salaries ranging from $1,620 to $2,160 a year, and those who receive ratings on this subject of 70 per cent. or over but less than 80 will be eligible for certification to junior engineer positions at salaries ranging from $1,020 to $1,380 a year. Promotions from lower to higher grades may be made from time to time at the discretion of the Department. Temporary appointments to the position of engineering aid or apprentice may also be made from the eligible list resulting from this examination, at salaries ranging from $720 to $960 a year. Age limit, 21 years or over. Application Form 1312.

ENGINEER, INSPECTOR, ETC.—Albany, N. Y.—Open competitive examinations for the State and County Service will be held in various cities throughout the State on June 6, for the following positions: Intending competitors must execute application blanks and file them in the office of the Commission before noon of May 30th. Candidates having applications on file will be

JANITOR AND STATIONARY ENGINEER. —New York, N. Y.—Following are the first 15 of a list of 462 names of persons who passed the examination held on Dec. 19, 1907, by the Municipal Civil Service Commission for the position of janitor and stationary engineer (established May 14):

Hammond, David E. (veteran), 426 47th St., Brooklyn	81.50
Flynn, William J., 1064 Putnam Ave., Brooklyn	97.30
Martin, John P., 1078 Prospect Pl., Brooklyn	96.40
Moore, Foster L., 1714 Bathgate Ave., The Bronx	94.30
McCall, John, 759 43d st, Brooklyn	94.30
Curren, Michael J., 121 South Ave., Arlington, S. I.	94.20
Dedrick, Gilman T., 157 Ninth Ave.	94.00
Mitchell, John, 1660 First Ave.	94.00
Todd, Orville R (not qualified), 3134 Corlear Ave., Kingsbridge	93.70
Dunn, Patrick J., 325 East 43d St.	93.40
DeMandeville, Eugene E., 248 Tompkins Ave., Glendale, L. I.	93.40
Mullin, Arthur G., 167 State St., Bklyn.	93.20
Keogh, William, 207 Second Ave.	93.20
Gavin, William M., 321 Vernon Ave., Brooklyn	93.10
Meinzer, Wilmer T., 160 Guernsey St., Brooklyn	92.70

INDUSTRIAL NOTES.

THE CANTON DROP FORGING & MFG. CO., Canton, Ohio, has appointed Herman Nieter as Eastern representative with offices at 2 Rector St., New York.

THE MARQUETTE CEMENT MFG. CO., Chicago, Ill., reports a recent day's shipment of 12,862 bbls. of Marquette Portland cement. The company has added another 1,100-HP. electric generator to its equipment, making four units in all.

THE AMERICAN DITTLER SEWAGE DISPOSAL CO. has moved its engineering office to 307 Colt Building, Paterson, N. J., R. Godeffroy, Pres., being in charge. The company will also maintain an office at 1123 Broadway, New York City, as heretofore.

THE UNITED STATES EQUIPMENT CO. has been incorporated under New Jersey laws with a capital of $250,000. The main office will be at 1201 Fisher Bldg., Chicago. Pres., Herbert F. Reagan; Secy. and Treas., John Everett, Arthur F. MacArthur and John R. MacArthur, of the MacArthur Bros. Co., at the same address, are also incorporators. The company will make a business of handling equipment for contractors, railway superintendents, etc., on a rental basis; will buy and sell second-hand equipment of this kind, and will probably act as selling agent for manufacturers of this class of products. It has taken over all the equipment owned by the MacArthur Bros. Co., including the large repair shop at McCook, Ill., which will be the plant headquarters. This equipment represents an investment of about $1,250,000. It will lease to the MacArthur Bros. Co. the equipment required for its extensive contracts, which include the construction of the large ship lock at Buffalo.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

MINING EQUIPMENT.—New York City.—W. S. Warner, 120 Liberty St., New York, is desirous of securing information and prices on electric and air equipment for phosphate mining.

DROMEDARY CONCRETE MIXERS.—Springfield, Mass.—We are advised by F. T. Ley & Co., Inc., Phoenix Bldg., Springfield, Mass., that they desire to purchase two second-hand dromedary concrete mixers.

TRADE PUBLICATIONS.

INDUSTRIAL RAILWAYS.—C. W. Hunt Co., West New Brighton, N. Y. Catalog 075. Paper; 3½ × 6 ins.; pp. 64; illustrated.

Tracks and cars, in almost endless variety, adapted to inter-factory transportation, are pictured and described.

ROLLER BEARINGS.—Hyatt Roller Bearing Co., Newark, N. J. Bulletin 31. Paper; 6 × 9 ins.; pp. 24; illustrated.

A line of roller bearings for heavy loads, high and low speeds on factory machinery, shafting, etc., is described in this book.

PLATE METAL CONSTRUCTION.—Coatesville Boiler Works, Coatesville, Pa. Paper; 6 × 9 ins.; pp. 24; illustrated.

A series of plates showing tubular boilers, steel stacks, coaling towers, stand pipes, dryers, digestors, etc., makes up this catalog.

DRILL SHARPENERS AND FURNACES.—The J. Geo. Leyner Engineering Works Co., Littleton, Colo. Paper; 9 × 6 ins.; pp. 24; illustrated.

The machine is for sharpening well drills, and the furnaces are for sharpening, welding and tempering drill steel.

MINING GEOLOGISTS. — Washington & Lewis, Singer Bldg., New York City. Paper; 7½ × 10 ins.; pp. 5.

Under the title "In Re Specialization" this pamphlet defines the field of usefulness covered by the firm.

ANALYSES AND ASSAYS.—Gulick-Henderson & Co., 439 Third Ave., Pittsburg, Pa. Paper; 6¼ × 3¼ ins.; pp. 8.

A price list for all classes of determinative chemical work: ores, alloys, oils, cements, bacteriological tests, etc.

RUBEROID ROOFING.—The Standard Paint Co., 100 William St., New York City. Paper; 5½ × 4 ins.; pp. 8; illustrated.

Under the title "Ruberoid Pete" a well illustrated exposition of the advantages of this type of roofing is given by the manufacturers.

ELECTRIC HOISTS.—Same company and style of publication as above. Bulletin No. 1032; pp. 47.

This bulletin describes and illustrates in detail various types of standard and special service hoists of all sizes. Some cages and skips are also cataloged.

GAS PRODUCERS.—United Gas Machinery Co., 114 Liberty St., New York City. Paper; 6¼ × 9½ ins.; pp. 28; illustrated.

Four types of gas producers are submitted with detailed explanation of use. A description of the Fitzimmons Pressure Producer is appended. Useful data for gas users is also given.

RIGID ROLLS FOR ORE CRUSHING.—The Denver Engineering Works Co., Denver, Colo. Bulletin No. 1034. Paper; 8¼ × 10½ ins.; pp. 15; illustrated.

This pamphlet describes rolls designed without springs or attendant complications. It is claimed that with spring rolls there is a possibility of over-sized product.

STANDARD WIRING SYMBOLS.—Allis-Chalmers Co., Milwaukee, Wis. Folder 4,010. Paper; 3½ × 6¼ ins.; pp. 4, illustrated.

In folder form this company, like a few others, has issued the standard wiring symbols promulgated by the National Electrical Contractors' Association.

MACHINE MOULDED GEARS.—National Gear Wheel Foundry, J. H. Nusser, Proprietor, South Ave. and Walker St., Pittsburg, Pa. Paper; 5 × 7½ ins.; pp. 40; illustrated.

In this pamphlet are tables of HP. transmitted, standard dimensions, etc., and other information for ordering gears for special purposes.

"MAGIC" BOILER CLEANING COMPOUND.—H. W. Johns-Manville Co., 100 William St., New York City. Paper; 3¼ × 6 ins.; pp. 12; illustrated.

Attention is called to a boiler cleaning compound for which, although it is a liquid, the manufacturers claim a "purely mechanical and natural" action.

ECONOMIZERS.—The Green Fuel Economizer Co., Matteawan, N. Y. Catalog 106. Paper; 6 × 9 ins.; pp. 158; illustrated.

This catalog is not merely a catalog of fuel economizers, but is more of a treatise, from this maker's standpoint, of the theory, operation and design of fuel economizers in connection with steam boiler plants.

BLOWERS.—B. F. Sturtevant Co., Hyde Park, Mass. Bulletin 153. Paper; 6¼ × 9 ins.; pp. 8; illustrated.

The development of the present designs of multivane fan wheels from the original fan of Mr. B. F. Sturtevant, 50 years ago, is presented in an article reprinted from the "Engineering Magazine," Jan., 1908.

PUMPS AND PUMPING ENGINES.—M. T. Davidson, 154 Nassau St., New York City. Paper; 6 × 9 ins.; pp. 96; illustrated.

A large line of steam pumps, pumping engines, power pumps, condensers, evaporating and distilling apparatus, ash ejectors, etc., is well presented in this catalog. There are about 20 pages additional of "useful data" for work in connection with such machinery.

ELECTRIC COAL PUNCHER.—The Pneumelectric Machine Co., Syracuse, N. Y. Paper; 7 × 9 ins.; pp. 24; illustrated.

The "Pneumelectric" coal punching machine was built to meet the demand for a percussive tool operated by electric current. How well the makers believe they have succeeded is told in this catalog. The details of construction also are attractively set forth.

LINK-BELT MACHINERY.—Link Belt Co., Nicetown, Pa. Catalog 75. Paper; 6 × 9 ins.; pp. 208; illustrated.

This catalog is apparently a complete exposition of this concern's well-known chain apparatus for transmitting power or conveying materials. Data and prices are given.

With Catalog 75 comes a pamphlet of the same size of page entitled "The Original Ewart Link-Belt—How to Use It and Why."

ORE TESTING BULLETIN.—The General Engineering Co., Salt Lake City, Utah. Paper; 6 × 9 ins.; pp. 40; illustrated.

A new organization of mining, mechanical and civil engineers herewith presents their facilities for making ore tests of every variety, from the 25-lb. "short cut" to the 10-ton mill test. Specimen report and flow sheets are shown, accompanied by photographs of the laboratory details by which the results are attained.

POWER PUMPS AND SELF-STARTERS FOR MOTORS.—The Lucas Pump Co., Dayton, O. Paper; 3½ × 6 ins.; pp. 30; illustrated.

The Lucas Co. issues a small booklet giving special attention to its "Bestyet" and "Allright" pumps, endeavoring to show prospective customers the proper choice of machines for various requirements. The automatic use of self-starters for electric motors is explained. Prices are given.

TIN ROOFER'S HANDBOOK.—National Association of Master Sheet Metal Workers. Paper; 4¼ × 7¾ ins.; pp. 23.

A short practical compilation of the history, advantages and application of Tin Roofing, prefaced by an exposition of the principles of the association and concluded with the Standard Specifications adopted by its trustees at the semi-annual meeting in Philadelphia, February, 1907. The booklet is a useful illustration of its final motto: "Cooperation Advances Trade Interests."

STANDARD GEARS.—Boston Gear Works, Norfolk Downs, Mass. Catalog El. Paper; 3¼ × 6 ins.; pp. 88; illustrated.

A very complete and well illustrated catalog of the spur, miter, bevel, worm and spiral gears manufactured by this company; clutches, joints, chains and automobile steering gears are also mentioned.

The issue is accompanied by a special circular calling attention to the latest product in steel miter and bevel gears with generated teeth, designed for high speed.

LARGE STEAM ENGINES.—The Allis-Chalmers Co., Milwaukee, Wis. Paper; 8 × 10½ ins.; illustrated.

Bulletin 1,502 is a general survey of tests on the horizontal-vertical, 7-500-HP. engines in the subway power-house of the Interborough Rapid Transit Co., New York City.

Directions for Setting the Valves of Reynolds Heavy Duty and Reliance Corliss Engines, is the title of Instruction Leaflet 2,004B issued by the Allis-Chalmers Company, which they offer to send to engineers and others interested.

STEAM SEPARATORS AND EXHAUST HEADS.—The Ohio Blower Co., Cleveland, Ohio. Catalog No. 116. Paper; 6 × 9 ins.; pp. 79; illustrated.

The application of the helico-centrifugal principle to the separation of air, oil and steam as embodied in the Swartwout patents is fully described and illustrated in a booklet issued under the title "Swartwout Cast-Iron Exhaust Head and Centrifugal Steam Separators." The manufacturing company claims that no competing apparatus equals their product in effectiveness, simplicity, durability and appearance, arraying facts and testimonials in proof.

GRADING AND EARTH HANDLING MACHINERY.—Western Wheeled Scraper Co., Aurora, Ill. Paper; 9¾ × 6½ ins.; pp. 104; illustrated.

The grading or excavating machinery includes drag and wheeled scrapers, plows, and the elevating graders used for railway, canal, road and general construction work. For handling the excavated material there are tilting and drop-bottom wagons, and railway dump cars of various types ranging from 1¼ cu. yds. to 20 cu. yds. capacity. There are also spreader cars for leveling the material dumped. The larger dump cars can be operated by air, and some of the views show these in use on railway work and on the Panama Canal. A few pages are devoted to a rock crusher of the jaw type, and elevators and chute screens for the product of the crusher.

LIGHTNING ARRESTERS.—General Electric Co., Schenectady, N. Y. Bulletin 4,573. Paper; 8 × 10½ ins.; pp. 30; illustrated.

Graded shunt-resistance, multi-gap, lightning arresters are described in this bulletin, which also contains detailed descriptions of low voltage arresters, static dischargers, constant-current horn arresters, disconnecting switches, choke coils and a direct-current arrester for voltages up to 6,000. Tables of general data regarding the apparatus, connection and dimension diagrams, etc., are included. The multigap arresters for high voltages consist essentially of a series of knurled cylinders placed closely together, the discharge taking place across the path of gaps thereby produced and being extinguished before current can follow for more than half a cycle by reason of the composition of the metal of the cylinders. The bulletin discusses briefly the theory upon which the arresters operate and their details of construction. It is bound in an artistic cover.

LIGHT LOCOMOTIVES.—H. K. Porter Co., Pittsburg, Pa. Cloth; 6¼ × 9¼ ins.; pp. 224; illustrated.

Light locomotives for contract and construction work, industrial plants, mines, plantations, and light railways have been the specialty of this firm for a number of years. A great variety of locomotives of this general class are illustrated, both of standard and narrow gages, and many of these have been built for use in numerous parts of the world. Some 60 different types are illustrated. They range from little four-wheel engines of four tons weight, to those of the eight-wheel, mogul, consolidation and other types for general railway service. The largest engines built have cylinders 17 × 24 ins. The designs include wood and coal-burning engines; engines with tenders; tank engines with rear, side and saddle tanks; and dummy engines for street and suburban railways. For each type there are tables of dimensions of engines of several sizes. The book also contains general specifications and tests of materials; tables of hauling capacity for various engines on grades up to 11%; and general information as to railway grades and curves, weights of large and small cars, track material and cost per mile. There is an interesting comparison of the cost of operating mules and light locomotives for haulage.

For other Proposal Advertisements see pages 43, 44, 45, 46, 50, of Advertisements and Construction News page 180.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 18, 1908.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 29th day of June, 1908, and then opened for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. Post-Office at Sumter, South Carolina, in accordance with drawings and specifications, copies of which may be had at the office of the Custodian of site at Sumter, South Carolina, or at this office, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 21-2t

CAST-IRON PIPE AND SPECIAL CASTINGS.

Rome, N. Y.

Sealed proposals will be received by the Board of Water and Sewer Commissioners of the City of Rome, N. Y., until 12 o'clock noon, on the 10th day of June, 1908, for the furnishing of about 3,745 net tons of cast-iron water pipe and about 12 net tons specials, as called for in the specifications.

Specifications can be obtained at the office of the Board, or from Knight & Hopkins, Engineers, Rome, N. Y.

The Board hereby reserves the right to reject any or all bids, or accept any that in their judgment will be for the best interest of the city.

A bond satisfactory to the Board in amount and sureties will be required of those to whom the contract may be awarded.

A certified check, made payable to the order of the Board of Water and Sewer Commissioners, Rome, N. Y., to the amount of $4,000.00 must be deposited by each bidder and accompany his bid as a guarantee that in case the contract is awarded him, he will, within seven days thereafter, execute such contract.

Bids must be sealed and addressed to the Board of Water and Sewer Commissioners, Rome, N. Y., and marked on the outside of the envelope enclosing them "Proposals."

BOARD OF WATER AND SEWER COMMISSIONERS,
HARVEY S. BEDELL, Chairman.
BARTON HASELTON.
H. W. BARNARD.
J. T. WIGGINS.
RAY ARMSTRONG, Clerk.
21-1t

ROAD IMPROVEMENTS.

Mt. Kisco, N. Y.

Sealed proposals will be received by the Town Board of the Town of Bedford, Westchester Co., N. Y., at the Office of Joseph E. Merriam, Town Clerk, in the Village of Mt. Kisco, N. Y., until 3.30 o'clock p. m., on the 8th day of June, 1908, when they will be opened,

For macadamizing, grading and otherwise improving the Road or Highway leading easterly from Cross River Bridge to the Lewisboro Town Line, a distance of about three and one-third (3 1/3) miles.

Plans may be seen, blank forms of proposals, specifications and other necessary papers can be obtained on application at the Office of Joseph E. Merriam, Town Clerk, Mt. Kisco, New York, or at the Office of Byrne & Darling, Engineers-in-Charge, White Plains, N. Y., on and after Monday, May 25.

The Town Board reserves the right to reject any and all bids or to accept any bid or bids, which in their judgment may be most favorable to the Town of Bedford.

JOSEPH E. MERRIAM,
Town Clerk.

Dated Mt. Kisko, N. Y., May 14, 1908.
By order of the Town Board. 21-3t

MACADAM ROADS.

Camden, N. J.

Bids are invited for macadamizing Evesham Road from White Horse Turnpike, to Blackwoodtown Turnpike, a distance of 2.43 miles. Also for macadamizing 2d Section of Blackwoodtown Turnpike from Chews to Blackwood, a distance of 2.4 miles, using asphaltum oil for binder.

Bids will be received, immediately opened and publicly read at the Stone Road Committee meeting held in the Freeholders' Room at the Court-House in Camden, on Monday, June 8, 1908, at 11 a. m.

Copies of the plans and specifications can be seen at the office of Fred W. George, Clerk of the Board at the Court-House, Camden, N. J., or at the office of Colonel Gilkyson, State Commissioner of Roads, Trenton, N. J.

Each bid must be accompanied with a certified check in the sum of $1,000 as a guarantee of good faith.

ALFRED L. SAYERS, Director.
J. J. ALBERTSON, County Engineer.
Magnolia, N. J., May 18, 1908. 21-3t

Situations Wanted

Civil Engineers.

CHIEF ENGINEER or Engineer of Construction, railroad (34), M. Am. Soc. Civil Engrs., open for engagement. Broad experience, including work in Mexico. Location immaterial. Address "G. A. 21," Engineering News, New York. 21-3t

Superintendents, M... etc.

WANTED—Portland cement ... supt. open for engagement. Refer... furnished. Address "F. A. 21," Engineering News, New York. 21-3t

MASON FOREMAN, 18 y... experience, desires position in or ... New York; first-class references. Ad... "I. A. 20," Engineering News, New ... 21-1t

Miscellaneous Wants

WANTED—To buy second-ha... suitable for use on irrigated farm... L. E. BENNETT, Abram, Tex. 21-1t

PARTNER—Young engineer, ...nding to open office in Northwest, ... graduate engineer with at least thre... experience to join him. Address ... A. 21," Engineering News, New Yo... 21-2t

WANTED.

Second-Hand Steam Hammer

2500 to 3500-lb. blow, for use ... northern New York. Address P. O. Bo... No. 51, Baldwinsville, N. Y. 21-2t

FOR SALE

FOR SALE.

2—BUCKEYE TRACTION DITCHERS.
1—CONTRACTORS' MACHINE, 20" × 5½ ft.
1—STEEL DRAINAGE MACHINE, 15" × 5½ ft.

Inquire
THE HARRISON CONSTRUCTION CO.,
837 Broad St., Newark, N. J.
21-tf

FOR SALE.

Four Sets Car Wheels

standard gage 18" wheels, roller bearing boxes, in good condition; price of entire lot, $80. G. & W. MFG. CO., 26 Cortlandt St., New York. 21-1t

FOR SALE.

Modern Steam Shovels

Two Vulcan, 65 ton, 2-yd., Class "E."
One Vulcan, 45 ton, 1½-yd., Class "F." High Crane.
Two Vulcan, 32 ton, 1¼-yd., Traction; 3 engines.
Two Vulcan, 26 ton, 1¼-yd., Traction; 2 engines.
One Vulcan, 35 ton, 1¼-yd., Traction. High Crane.
One Marion "A," 45 ton, 1½-yd. Low price.
Two Marion Model 20, 38 ton, 1¼-yd.
Three Marion Model 60, 70 ton, 2-yd.

Also fifty others, nearly all makes and sizes, at bargain prices.

I have special offerings in Locomotives, Dump Cars, Relaying Rails, Road Rollers, etc.

JOHN B. WATSON
Drexel Bldg., Philadelphia, Pa.
'Most Everything for the Contractor. 21-1t

Excellent Investment

FACTORY RECENTLY COMPLETED, AT HUNTINGTON, W. VA., consisting of 25 acres of ground and buildings erected of concrete blocks, brick piers and steel trusses. Size of buildings are as follows:

Moulding Shop	100 × 305
Machine Shop	50 × 100
Cupola Building	41 × 48
Core Room	41 × 64
Storage Shed	50 × 240
Sand and Coke Shed	20 × 160

Plant is so arranged that it can handle the products with the greatest amount of economy. It was built for the manufacture of CAST IRON SOIL PIPE AND FITTINGS. AND HAS COMPLETE EQUIPMENT FOR from 2" to 6". The plant is so built that it can be used for almost any factory purpose. ALL THE EQUIPMENT IS NEW; excellent location; in the heart of the Iron and Coke center, and favorable freight rates. WILL BE SOLD AT A VERY LOW FIGURE, or, would arrange to operate plant with anyone seeking investment. Shop right of our New Process for making Soil Pipe and Fittings, saving from $2.00 to $3.00 per ton, goes with the plant. EXCEPTIONAL OPPORTUNITY.

For further particulars address:

GLOBE FOUNDRY COMPANY,
PORT CHESTER, N. Y.
21-2t